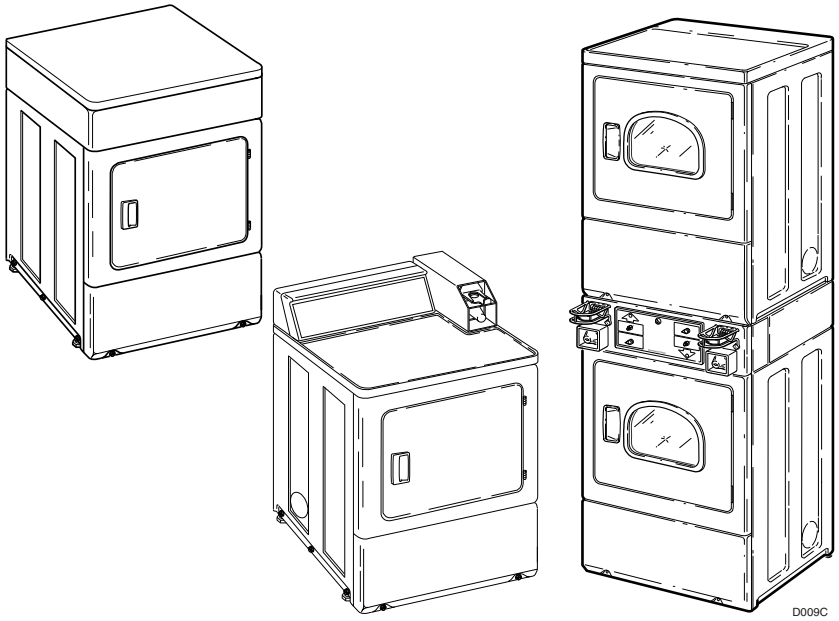
Single and Stacked Dryers

Refer to Page 6 for Model Numbers



DRY692C

Troubleshooting

Alliance Laundry Systems

www.comlaundry.com

Part No. 505893R3
August 2010

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Section 1
Safety Information

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION," "WARNING" and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

⚠ DANGER

Danger indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

⚠ WARNING

Warning indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

⚠ CAUTION

Caution indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT

The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE

The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

WARNING

- **Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.**
- **Do not repair or replace any part of the machine or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded and to reduce the risk of fire, electric shock, serious injury, or death.**

W284

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you or the inexperienced person making such repairs to the risk of serious injury, electrical shock or death.

W007

WARNING

If you or an unqualified person perform service on your machine, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W286

NOTE: The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the machine.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

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Section 2
Introduction

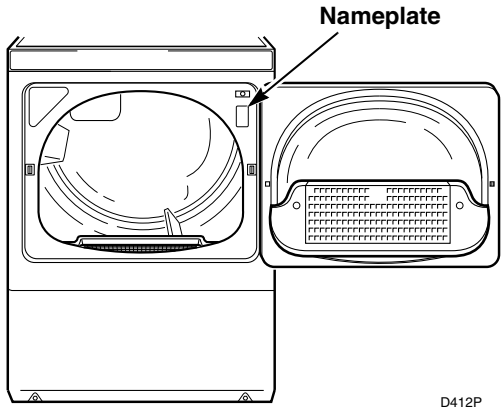
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Nameplate Location

When calling or writing about your dryer, be sure to mention model and serial numbers. Model and serial numbers are located on the nameplate. The nameplate is in one of the four corners of the door well. The door well is the shaded area shown.



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Model Identification

Information in this manual is applicable to these dryers.

Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
BDE807*F	X													X	
BDE907*F			X										X	X	
BDEBEFGS171CN01					X					X				X	
BDEBEFGS171CW01					X					X				X	
BDEBEFGS171TN01					X					X				X	
BDEBEFGS171TW01					X					X				X	
BDEBLFGS431AW01										X		X		X	
BDET07*F					X					X				X	
BDG809*F1102	X														X
BDG909*F1102			X										X		X
BDGBEFGS111CN01					X					X					X
BDGBEFGS111CW01					X					X					X
BDGBEFGS111TN01					X					X					X
BDGBEFGS111TW01					X					X					X
BDGBLFGS301AW01										X		X			X
BDGT09*F					X					X					X
BFEL07*G4018										X		X		X	
BFEX07*F				X						X				X	
BFEX07*F4350				X						X				X	
BFEX07*G4018				X						X				X	
BFGL09*M3013										X		X			X
BFGX09*F				X						X					X
BFGX09*F3060				X						X					X
BFGX09*M3013				X						X					X
BSE807*F	X													X	
BSE907*F			X										X	X	
BSG809*F	X														X
BSG909*F			X										X		X
FDE807*G3018	X													X	
FDE807*G4018	X													X	
GDE807*F5418	X													X	
GDE807*G3018	X													X	
GDE907*G3018			X										X	X	
GFEG17NG3018	X									X				X	

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
GFEG17NG4018	X									X				X	
GFEX17NG3018				X						X				X	
GFEX17NG4018				X						X				X	
GFEY17NG3018						X				X				X	
GFEY17NG4018						X				X				X	
GFGG19NM3020	X									X					X
GFGX19NM3020				X						X					X
GFGY19NM3020						X				X					X
HDE007*F	X													X	
HDE007*F1702	X													X	
HDE007*F3000	X													X	
HDE007*G3003	X													X	
HDE007*G3008	X													X	
HDE007*G3010	X													X	
HDE007*G4008	X													X	
HDE007*G4010	X													X	
HDE107*F			X					X						X	
HDE107*F1502			X					X						X	
HDE107*F1702			X					X						X	
HDE107*F3000			X					X						X	
HDE107*G3003			X					X						X	
HDE107*G3018			X					X						X	
HDE107*G4018			X					X						X	
HDE507*F1502					X				X					X	
HDE507*F1702					X				X					X	
HDE707*F1502							X		X					X	
HDE707*F1702							X		X					X	
HDE807*F1702	X													X	
HDE907*F			X										X	X	
HDE907*F1502			X										X	X	
HDE907*F1702			X										X	X	
HDE907*G3018			X										X	X	
HDE907*G4018			X										X	X	
HDEB07*J1502					X					X				X	
HDEB07*J1702					X					X				X	
HDEB07*J99L1					X					X				X	

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
HDEB07*J99L2					X					X				X	
HDEF07*J1502							X				X			X	
HDEF07*J1702							X				X			X	
HDER07*F1502					X					X				X	
HDER07*F1702					X					X				X	
HDET07*F					X					X				X	
HDET07*F1500					X					X				X	
HDET07*F1502					X					X				X	
HDET07*F1702					X					X				X	
HDEX07*F1502				X						X				X	
HDEX07*F1702				X						X				X	
HDEX07*F3000				X						X				X	
HDEX07*G3018				X						X				X	
HDEY07*F						X				X				X	
HDEY07*F1500						X				X				X	
HDEY07*F1502						X				X				X	
HDEY07*F1702						X				X				X	
HDEY07*F99N2						X				X				X	
HDEZ07*F					X					X				X	
HDEZ07*F1500					X					X				X	
HDEZ07*F1502					X					X				X	
HDEZ07*F1702					X					X				X	
HDG009*F	X														X
HDG009*F1102	X														X
HDG009*F3000	X														X
HDG009*G3008	X														X
HDG009*M3008	X														X
HDG109*F			X					X							X
HDG109*F1102			X					X							X
HDG109*F3000			X					X							X
HDG109*G3013			X					X							X
HDG109*M3013			X					X							X
HDG509*F1102					X				X						X
HDG709*F1102							X		X						X
HDG809*F1102	X														X
HDG909*F			X										X		X

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
HDG909*F1102			X										X		X
HDGB09*J1102					X						X				X
HDGB09*J99L1					X						X				X
HDGF09*J1102							X				X				X
HDGR09*F1102					X					X					X
HDGT09*F					X					X					X
HDGT09*F1102					X					X					X
HDGX09*F1102				X						X					X
HDGX09*F3000				X						X					X
HDGX09*M3013				X						X					X
HDGY09*F						X				X					X
HDGY09*F1102						X				X					X
HDGZ09*F					X					X					X
HDGZ09*F1102					X					X					X
HFE167*G4018			X					X						X	
HFE507*F1702					X				X					X	
HFE707*F1702							X		X					X	
HFEB07*J1702					X					X				X	
HFEL47*G4018										X		X		X	
HFEL67*G4018										X		X		X	
HFEX07*F1702				X						X				X	
HFEY07*F1502						X				X				X	
HFEY07*F1702						X				X				X	
HFG509*F1102					X				X						X
HFG709*F1102							X		X						X
HFGX09*F1102				X						X					X
HFGX09*M3013				X						X					X
HFGY09*F1102						X				X					X
HSE117*F			X					X						X	
HSE117*F2802			X					X						X	
HSE117*F2902			X					X						X	
HSE517*F2802					X				X					X	
HSE517*F2902					X				X					X	
HSE717*F2802							X		X					X	
HSE717*F2902							X		X					X	
HSE917*F			X										X	X	

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
HSE917*F2802			X										X	X	
HSE917*F2902			X										X	X	
HSEB17*J1500					X						X			X	
HSEB17*J2802					X						X			X	
HSEB17*J2902					X						X			X	
HSEB17*J99L1					X						X			X	
HSEB17*J99L2					X						X			X	
HSEF17*J2802							X				X			X	
HSEF17*J2902							X				X			X	
HSER17*F2802					X					X				X	
HSER17*F2902					X					X				X	
HSET17*F					X					X				X	
HSET17*F1500					X					X				X	
HSET17*F2802					X					X				X	
HSET17*F2902					X					X				X	
HSEX17*F2802				X						X				X	
HSEX17*F2902				X						X				X	
HSEY17*F						X				X				X	
HSEY17*F1500						X				X				X	
HSEY17*F2802						X				X				X	
HSEY17*F2902						X				X				X	
HSEY17*F99N2						X				X				X	
HSEZ17*F					X					X				X	
HSEZ17*F1500					X					X				X	
HSEZ17*F2802					X					X				X	
HSEZ17*F2902					X					X				X	
HSG119*F			X					X							X
HSG119*F0902			X					X							X
HSG519*F0902					X				X						X
HSG719*F0902							X		X						X
HSG919*F			X										X		X
HSG919*F0902			X										X		X
HSGB19*J0902					X						X				X
HSGB19*J99L1					X						X				X
HSGF19*J0902							X				X				X
HSGR19*F0902					X					X					X

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
HSGT19*F					X					X					X
HSGT19*F0902					X					X					X
HSGX19*F0902				X						X					X
HSGY19*F						X				X					X
HSGY19*F0902						X				X					X
HSGZ19*F					X					X					X
HSGZ19*F0902					X					X					X
JDE807*F	X													X	
JDE807*F4350	X													X	
JDE807*F5418	X													X	
JDE807*G3018	X													X	
JDE907*F			X										X	X	
JDE907*F4350			X										X	X	
JDE907*G3018			X										X	X	
JDEBEFGW301EW01					X					X				X	
JDEBGFGW301EW01	X									X				X	
JDEBGFSW301EN01	X									X				X	
JDG809*F	X														X
JDG809*F3060	X														X
JDG809*M3013	X														X
JDG809*M3020	X														X
JDG909*F			X										X		X
JDG909*F3060			X										X		X
JDG909*M3013			X										X		X
JDG909*M3020			X										X		X
JDGBEFGW301EW01					X					X					X
JDGBGFGW301EW01	X									X					X
JDGBGFSW301EN01	X									X					X
JSE807*F	X													X	
JSE807*F4350	X													X	
JSE907*F			X										X	X	
JSE907*F4350			X										X	X	
JSEBEFGW301EW01					X					X				X	
JSEBGFGW301EW01	X									X				X	
JSG809*F	X														X
JSG809*F3060	X														X

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
JSG909*F			X										X		X
JSG909*F3060			X										X		X
JSGBEFGW301EW01					X					X					X
JSGBGFGW301EW01	X									X					X
KFEG17NF	X									X				X	
KFEG17NF1702	X									X				X	
KFEG17NG3018	X									X				X	
KFEG17NG4018	X									X				X	
KFET17NF					X					X				X	
KFET17NF1702					X					X				X	
KFEX17NG3018				X						X				X	
KFEX17NG4018				X						X				X	
KFEY17NF						X				X				X	
KFEY17NF1702						X				X				X	
KFEY17NG3018						X				X				X	
KFEY17NG4018						X				X				X	
KFGG19NF	X									X					X
KFGG19NF1102	X									X					X
KFGG19NM3020	X									X					
KFGT19NF					X					X					X
KFGT19NF1102					X					X					X
KFGX19NM3020				X						X					X
KFGY19NF						X				X					X
KFGY19NF1102						X				X					X
KFGY19NM3020						X				X					X
NDE007*G3018	X													X	
NDE007*G4018	X													X	
NDE807*F3022	X													X	
NDE807*F5422	X													X	
NDE807*G3018	X													X	
NDE807*G4018	X													X	
NDE907*F3022			X										X	X	
NDE907*F5422			X										X	X	
NDG809*F3022	X														X
NDG809*F5422	X														X
NDG909*F3022			X										X		X

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
NDG909*F5422			X										X		X
NFEL47*G4018										X		X		X	
NFEL67*G4018										X		X		X	
NFEX07*G3018				X						X				X	
NFEX07*G4018				X						X				X	
NFGL49*M3013										X		X			X
NFGX09*M3013				X						X					X
NSE817*F5422	X													X	
NSE917*F3022			X										X	X	
NSE917*F5422			X										X	X	
NSEBXFGW301NW22				X						X				X	
NSG919*F3022			X										X		X
NSGBXFGW301NW22				X						X					X
PDE807*G3018	X													X	
PDE807*G4018	X													X	
PDG809*M3013	X														X
SDE007*F	X													X	
SDE007*F1500	X													X	
SDE007*F3000	X													X	
SDE007*F4350	X													X	
SDE007*G3018	X													X	
SDE107*F			X					X						X	
SDE107*F1500			X					X						X	
SDE107*F1724			X					X						X	
SDE107*F3000			X					X						X	
SDE107*F4350			X					X						X	
SDE107*F5412			X					X						X	
SDE107*F5417			X					X						X	
SDE107*F99L6			X					X						X	
SDE107*F99L7			X					X						X	
SDE107*G3018			X					X						X	
SDE107*G4018			X					X						X	
SDE307*F		X	X					X						X	
SDE307*F1500		X	X					X						X	
SDE407*F				X					X					X	
SDE407*F1500				X					X					X	

*** Add Letter To Designate Color. L – Almond W – White Q – Bisque**

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
SDE407*F3000				X					X					X	
SDE407*F4350				X					X					X	
SDE507*F					X				X					X	
SDE507*F1500					X				X					X	
SDE607*F						X			X					X	
SDE607*F1500						X			X					X	
SDE707*F							X		X					X	
SDE707*F1500							X		X					X	
SDE807*F	X													X	
SDE807*F1500	X													X	
SDE807*F3000	X													X	
SDE807*F4350	X													X	
SDE907*F			X										X	X	
SDE907*F1500			X										X	X	
SDE907*F1724			X										X	X	
SDE907*F3000			X										X	X	
SDE907*F4350			X										X	X	
SDE907*F5412			X										X	X	
SDE907*G3018			X										X	X	
SDE907*G4018			X										X	X	
SDEA07*J				X							X			X	
SDEA07*J1500				X							X			X	
SDEA07*J3000				X							X			X	
SDEA07*J4350				X							X			X	
SDEB07*J					X						X			X	
SDEB07*J1500					X						X			X	
SDEBCRGS171TW02					X					X				X	
SDEBXRGS171TW02				X						X				X	
SDEC07*J						X					X			X	
SDEF07*J							X				X			X	
SDEF07*J1500							X				X			X	
SDEF07*J4350							X				X			X	
SDEH07*J					X						X			X	
SDEH07*J1500					X						X			X	
SDESXRGS171TW02			X										X	X	
SDET07*F					X					X				X	

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
SDET07*F1500					X					X				X	
SDEX07*F				X						X				X	
SDEX07*F1500				X						X				X	
SDEX07*F3000				X						X				X	
SDEX07*F4350				X						X				X	
SDEX07*G3018				X						X				X	
SDEX07*G4018				X						X				X	
SDEY07*F						X				X				X	
SDEY07*F1500						X				X				X	
SDEZ07*F					X					X				X	
SDEZ07*F1500					X					X				X	
SDG009*F	X														X
SDG009*F3000	X														X
SDG009*F3058	X														X
SDG009*F3060	X														X
SDG109*F			X					X							X
SDG109*F1124			X					X							X
SDG109*F3058			X					X							X
SDG109*F3060			X					X							X
SDG109*F5412			X					X							X
SDG109*F99L6			X					X							X
SDG109*F99L7			X					X							X
SDG109*G3013			X					X							X
SDG109*M3013			X					X							X
SDG309*F		X	X					X							X
SDG409*F				X					X						X
SDG409*F3000				X					X						X
SDG409*F3058				X					X						X
SDG509*F					X				X						X
SDG609*F						X			X						X
SDG709*F							X		X						X
SDG809*F	X														X
SDG809*F3060	X														X
SDG909*F			X										X		X
SDG909*F1124			X										X		X
SDG909*F3060			X										X		X

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
SDG909*F5412			X										X		X
SDG909*M3013			X										X		X
SDGA09*J				X							X				X
SDGB09*J					X						X				X
SDGBCRGS111TW02					X					X					X
SDGBXRGS111TW02				X						X					X
SDGC09*J						X					X				X
SDGF09*J							X				X				X
SDGF09*J3060							X				X				X
SDGH09*J					X						X				X
SDGSXRGS111TW02			X										X		X
SDGT09*F					X					X					X
SDGX09*F				X						X					X
SDGX09*F3000				X						X					X
SDGX09*F3060				X						X					X
SDGX09*M3013				X						X					X
SDGY09*F						X				X					X
SDGZ09*F					X					X					X
SFE107*F			X					X						X	
SFE407*F				X					X					X	
SFE507*F					X				X					X	
SFE507*F1500					X				X					X	
SFE707*F							X		X					X	
SFEA07*G3018				X							X			X	
SFEB07*J					X						X			X	
SFEF07*J							X				X			X	
SFEL07*G4018										X		X		X	
SFEL67*G4018										X		X		X	
SFET07*F					X					X				X	
SFEX07*F				X						X				X	
SFEX07*F3300				X						X				X	
SFEX07*F4350				X						X				X	
SFEX07*G3018				X						X				X	
SFEX07*G4018				X						X				X	
SFEX67*G4018				X						X				X	
SFEY07*F						X				X				X	

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
SFEY07*G4018						X				X				X	
SFEZ07*F					X					X				X	
SFG109*F			X					X							X
SFG409*F				X					X						X
SFG509*F					X				X						X
SFG709*F							X		X						X
SFGB09*J					X						X				X
SFGF09*J							X				X				X
SFGL09*M3013										X		X			X
SFGT09*F					X					X					X
SFGX09*F				X						X					X
SFGX09*M3013				X						X					X
SFGY09*F						X				X					X
SFGZ09*F					X					X					X
SGD109*F3000			X					X							X
SSE007*F	X							X						X	
SSE007*F1500	X							X						X	
SSE007*F3000	X							X						X	
SSE007*F4350	X							X						X	
SSE007*F99H2	X							X						X	
SSE107*F			X					X						X	
SSE107*F1500			X					X						X	
SSE107*F1724			X					X						X	
SSE107*F99L6			X					X						X	
SSE107*F99L7			X					X						X	
SSE107*G3018			X					X						X	
SSE117*F			X					X						X	
SSE117*F1500			X					X						X	
SSE117*F3000			X					X						X	
SSE117*F4350			X					X						X	
SSE117*F5412			X					X						X	
SSE117*G3018			X					X						X	
SSE307*F		X	X					X						X	
SSE307*F1500		X	X					X						X	
SSE417*F				X					X					X	
SSE417*F3000				X					X					X	

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
SSE417*F4350				X					X					X	
SSE507*F					X				X					X	
SSE507*F1500					X				X					X	
SSE517*F					X				X					X	
SSE517*F1500					X				X					X	
SSE607*F						X			X					X	
SSE617*F						X			X					X	
SSE707*F							X		X					X	
SSE717*F							X		X					X	
SSE807*F	X													X	
SSE807*F1500	X													X	
SSE807*F3000	X													X	
SSE807*F4350	X													X	
SSE807*G3018	X													X	
SSE907*F			X										X	X	
SSE907*F1500			X										X	X	
SSE907*F1724			X										X	X	
SSE907*G3018			X										X	X	
SSE917*F			X										X	X	
SSE917*F3000			X										X	X	
SSE917*F4350			X										X	X	
SSEA07*G3018				X							X			X	
SSEA17*J				X							X			X	
SSEB07*J					X						X			X	
SSEB07*J1500					X						X			X	
SSEB17*J					X						X			X	
SSEB17*J1500					X						X			X	
SSEC07*J						X					X			X	
SSEF07*J							X				X			X	
SSEF17*J							X				X			X	
SSEF17*J4350							X				X			X	
SSEH07*J					X						X			X	
SSEH07*J1500					X						X			X	
SSET07*F					X					X				X	
SSET07*F1500					X					X				X	
SSET17*F					X					X				X	

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
SSET17*F1500					X					X				X	
SSEX07*F				X						X				X	
SSEX07*G3018				X						X				X	
SSEY07*F						X				X				X	
SSEY07*F1500						X				X				X	
SSEY17*F						X				X				X	
SSEZ07*F				X						X				X	
SSEZ07*F1500				X						X				X	
SSEZ17*F				X						X				X	
SSEZ17*F1500				X						X				X	
SSG009*F	X														X
SSG109*F			X					X							X
SSG109*F1124			X					X							X
SSG109*F99L6			X					X							X
SSG109*F99L7			X					X							X
SSG109*M3013			X					X							X
SSG119*F			X					X							X
SSG119*F3000			X					X							X
SSG119*F3058			X					X							X
SSG119*F3060			X					X							X
SSG119*F5412			X					X							X
SSG119*F5480			X					X							X
SSG119*M3013			X					X							X
SSG309*F		X	X					X							X
SSG419*F				X					X						X
SSG419*F3000				X					X						X
SSG419*F3058				X					X						X
SSG509*F					X				X						X
SSG519*F					X				X						X
SSG609*F						X			X						X
SSG619*F						X			X						X
SSG709*F							X		X						X
SSG719*F							X		X						X
SSG809*F	X														X
SSG909*F			X												X
SSG909*F1124			X										X		X

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
SSG909*M3013			X										X		X
SSG919*F			X										X		X
SSG919*F3060			X										X		X
SSGA19*J				X							X				X
SSGB09*J					X						X				X
SSGB19*J					X						X				X
SSGC09*J						X					X				X
SSGF09*J							X				X				X
SSGF19*J							X				X				X
SSGF19*J3060							X				X				X
SSGH09*J					X						X				X
SSGT09*F					X					X					X
SSGT19*F					X					X					X
SSGX09*F				X						X					X
SSGX09*M3013				X						X					X
SSGX19*F				X						X					X
SSGX19*F3060				X						X					X
SSGY09*F						X				X					X
SSGY19*F						X				X					X
SSGZ09*F					X					X					X
SSGZ19*F					X					X					X
UDE007*F	X													X	
UDE007*F3000	X													X	
UDE007*F3025	X													X	
UDE807*F	X													X	
UDE807*F1702	X													X	
UDG009*F	X														X
UDG009*F3000	X														X
UDG009*F3025	X														X
UDG809*F	X														X
UDG809*F1102	X														X
USE007*F	X													X	
USE017*F5412	X													X	
USE807*F	X													X	
USG009*F	X														X
USG019*F5412	X														X

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Model Number	Nonmetered Model	Counter	Coin Slide Ready	Coin Drop Ready	Coin Drop Installed	Card Reader Ready	Card Reader Installed	Electromechanical Control	Electronic Display Control	MDC Control	NetMaster Control	Central Pay	Coin Slide Control	Electric Heat	Gas Heat
USG809*F	X														X

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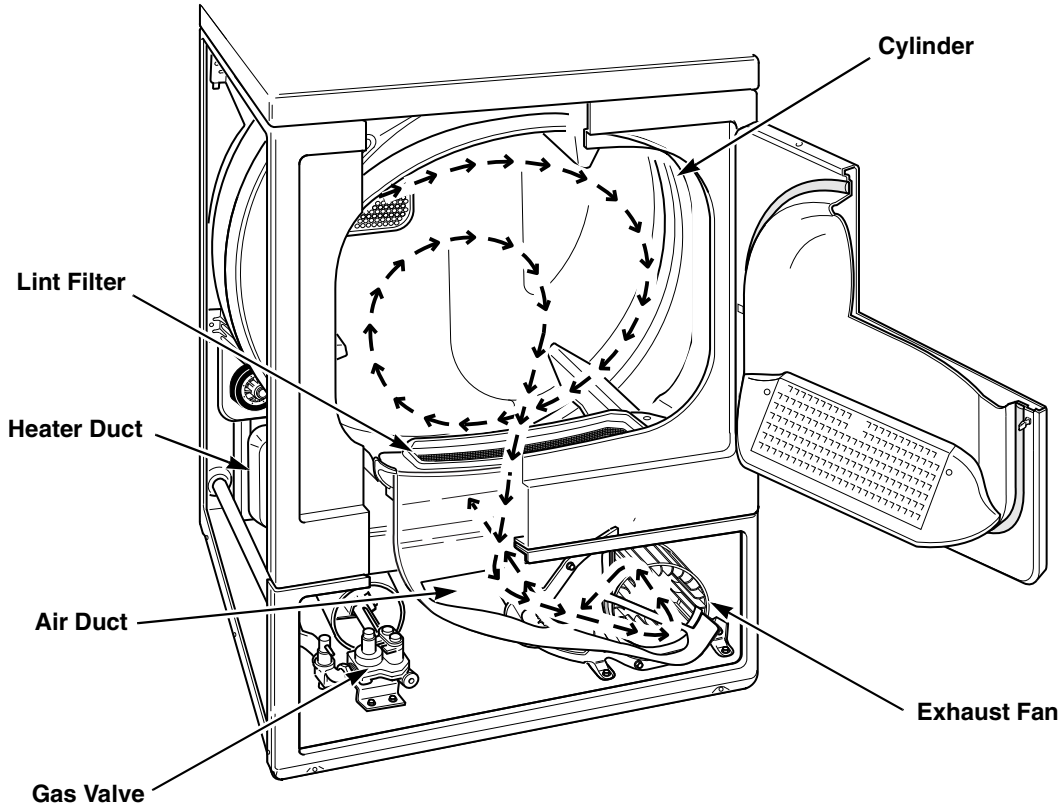
How Your Dryer Works



DRY1819S

The dryer uses heated air to dry loads of laundry. When the motor is started, the exhaust fan pulls room temperature air in through louvers at the rear of the dryer and over the heat source (burner flame for gas and heating element for electric). The heated air moves through the heater duct and into the cylinder, where it circulates through the wet load. The air then passes through the lint filter, air duct, and exhaust fan, where it is vented to the outdoors.

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Section 3
Dryer Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

IMPORTANT: Refer to wiring diagram for aid in testing dryer components.

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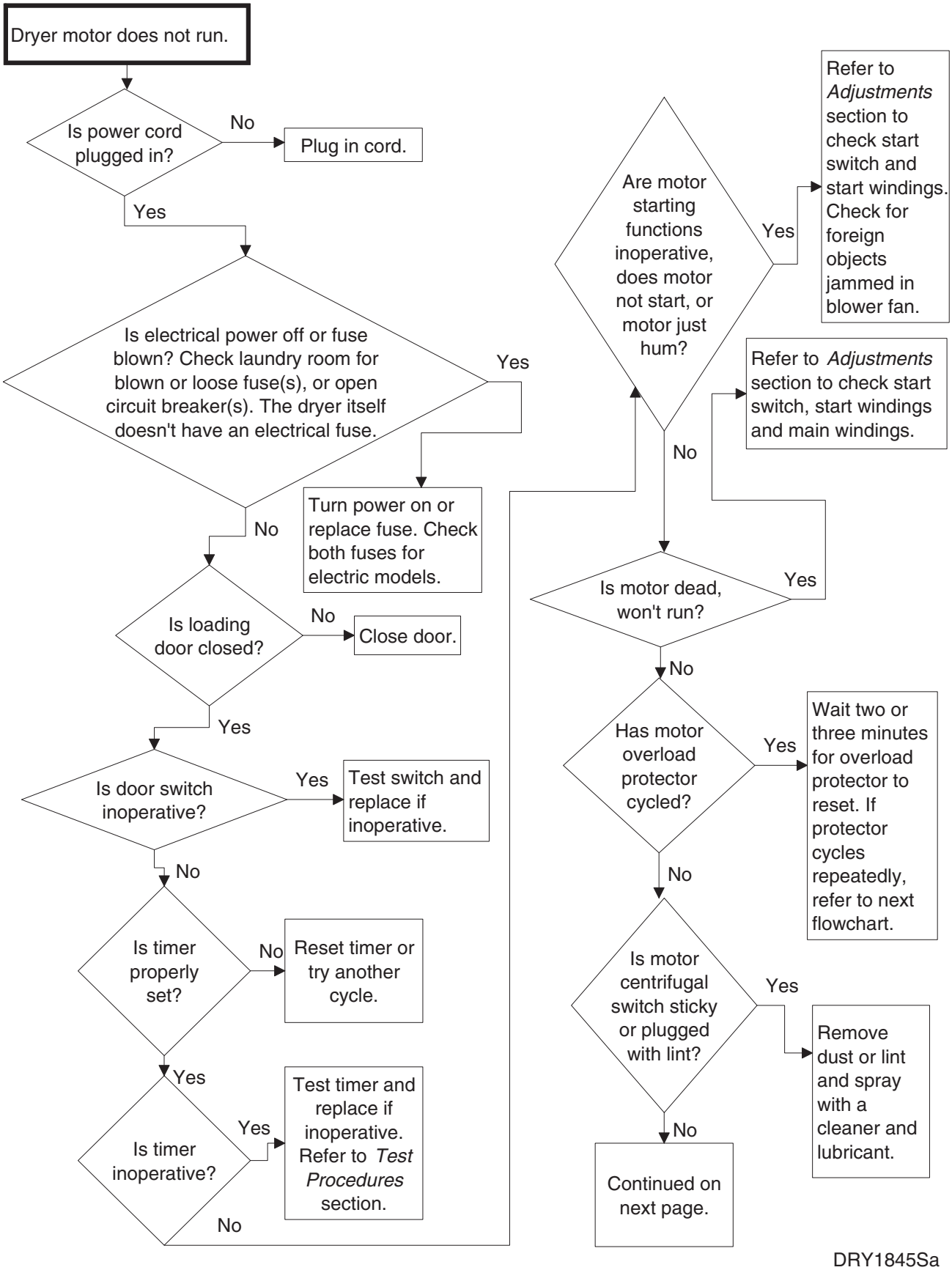
1. Dryer Motor Does Not Run


Dryer motor does not run.
Is power cord plugged in?
No
Plug in cord.
Yes
Is electrical power off or fuse blown? Check laundry room for blown or loose fuse(s), or open circuit breaker(s). The dryer itself doesn't have an electrical fuse.
Yes
Turn power on or replace fuse. Check both fuses for electric models.
No
Is loading door closed?
No
Close door.
Yes
Is door switch inoperative?
Yes
Test switch and replace if inoperative.
No
Is timer properly set?
No
Reset timer or try another cycle.
Yes
Is timer inoperative?
Yes
Test timer and replace if inoperative. Refer to *Test Procedures* section.
No
Are motor starting functions inoperative, does motor not start, or motor just hum?
Yes
Refer to *Adjustments* section to check start switch and start windings. Check for foreign objects jammed in blower fan.
No
Refer to *Adjustments* section to check start switch, start windings and main windings.
Is motor dead, won't run?
Yes
No
Has motor overload protector cycled?
Yes
Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to next flowchart.
No
Is motor centrifugal switch sticky or plugged with lint?
Yes
Remove dust or lint and spray with a cleaner and lubricant.
No
Continued on next page.

DRY1845Sa

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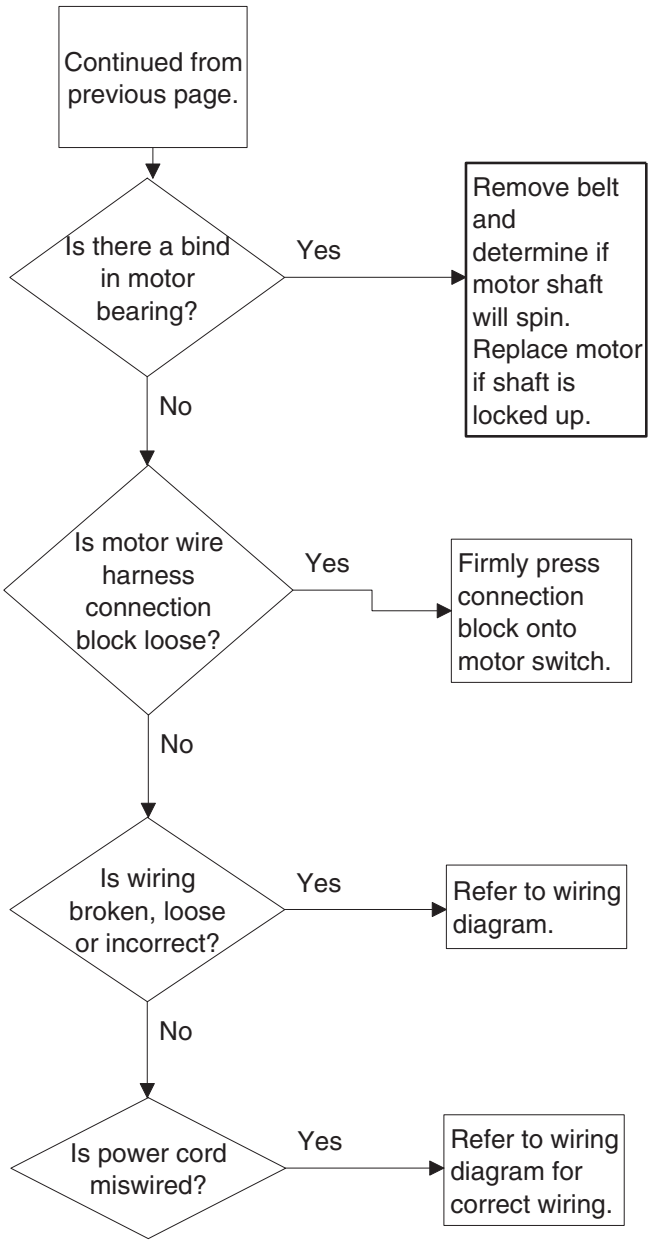
1. Dryer Motor Does Not Run (continued)


Continued from previous page.
Is there a bind in motor bearing?
Yes
Remove belt and determine if motor shaft will spin. Replace motor if shaft is locked up.
No
Is motor wire harness connection block loose?
Yes
Firmly press connection block onto motor switch.
No
Is wiring broken, loose or incorrect?
Yes
Refer to wiring diagram.
No
Is power cord miswired?
Yes
Refer to wiring diagram for correct wiring.

DRY1845Sb

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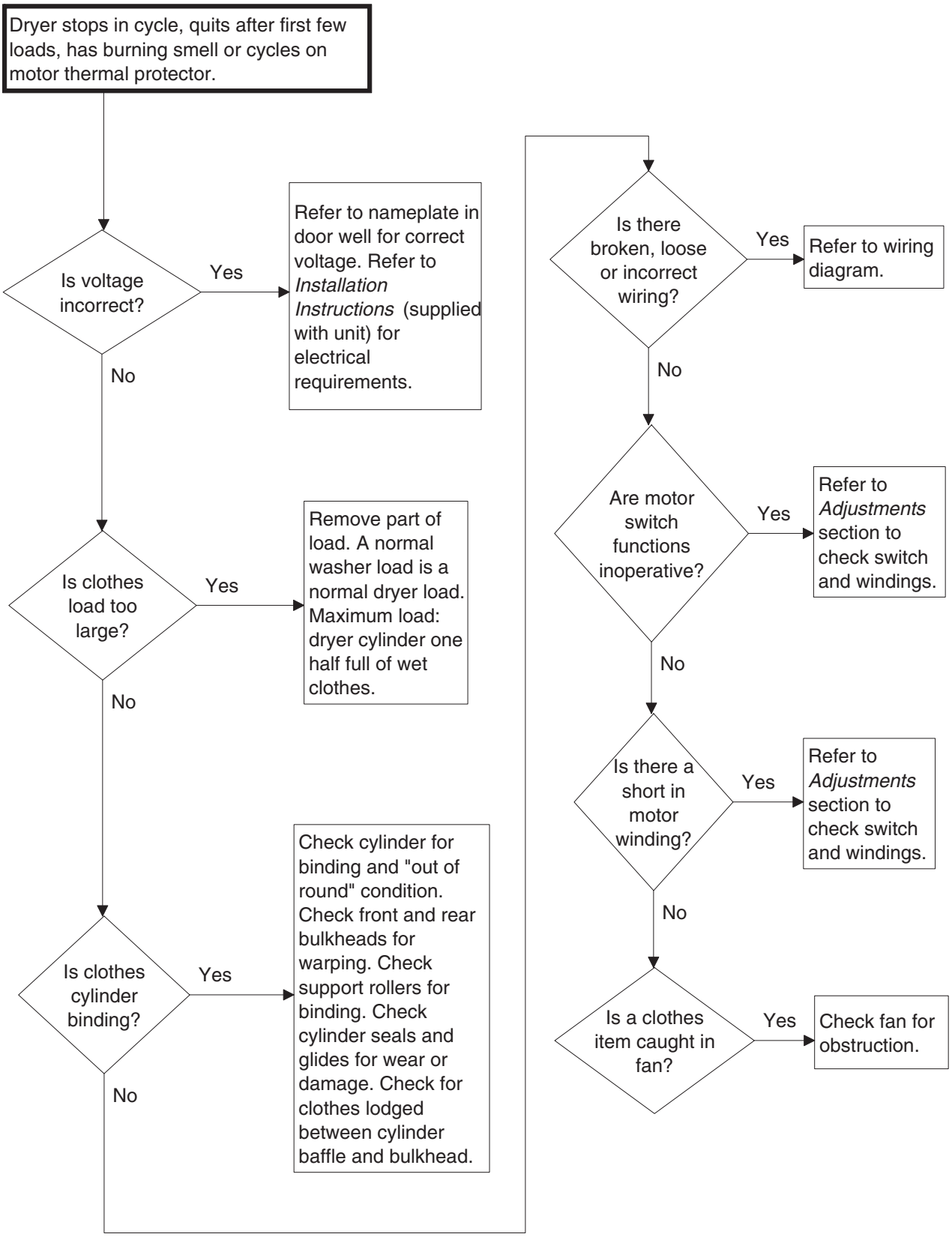
2. Dryer Stops In Cycle; Quits After The First Few Loads; Has A Burning Smell; Cycles On Motor Thermal Protector


Dryer stops in cycle, quits after first few loads, has burning smell or cycles on motor thermal protector.
Is voltage incorrect?
Yes
Refer to nameplate in door well for correct voltage. Refer to *Installation Instructions* (supplied with unit) for electrical requirements.
No
Is clothes load too large?
Yes
Remove part of load. A normal washer load is a normal dryer load. Maximum load: dryer cylinder one half full of wet clothes.
No
Is clothes cylinder binding?
Yes
Check cylinder for binding and "out of round" condition. Check front and rear bulkheads for warping. Check support rollers for binding. Check cylinder seals and glides for wear or damage. Check for clothes lodged between cylinder baffle and bulkhead.
No
Is there broken, loose or incorrect wiring?
Yes
Refer to wiring diagram.
No
Are motor switch functions inoperative?
Yes
Refer to *Adjustments* section to check switch and windings.
No
Is there a short in motor winding?
Yes
Refer to *Adjustments* section to check switch and windings.
No
Is a clothes item caught in fan?
Yes
Check fan for obstruction.

SWD1690S

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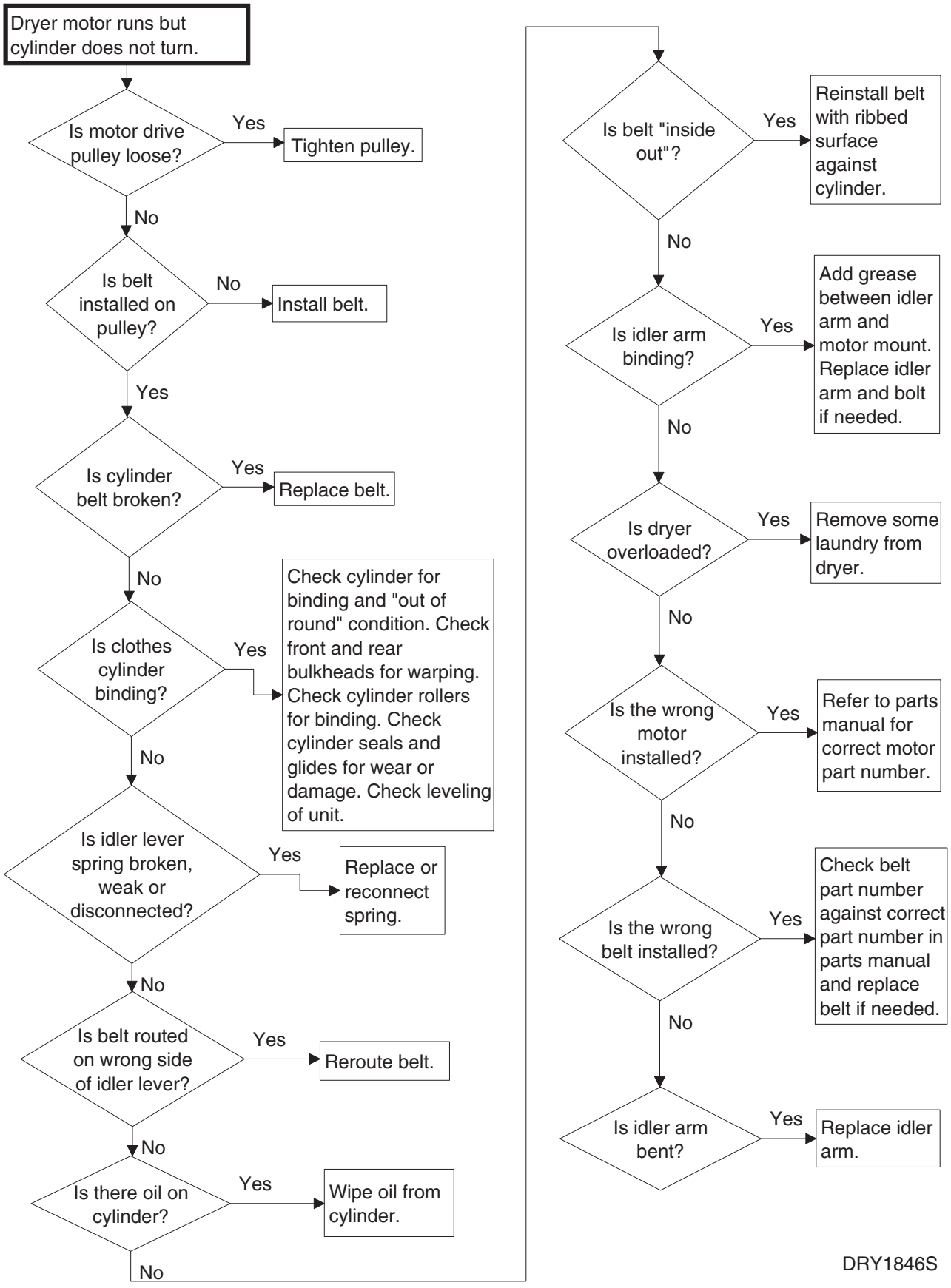
3. Dryer Motor Runs But Cylinder Does Not Turn



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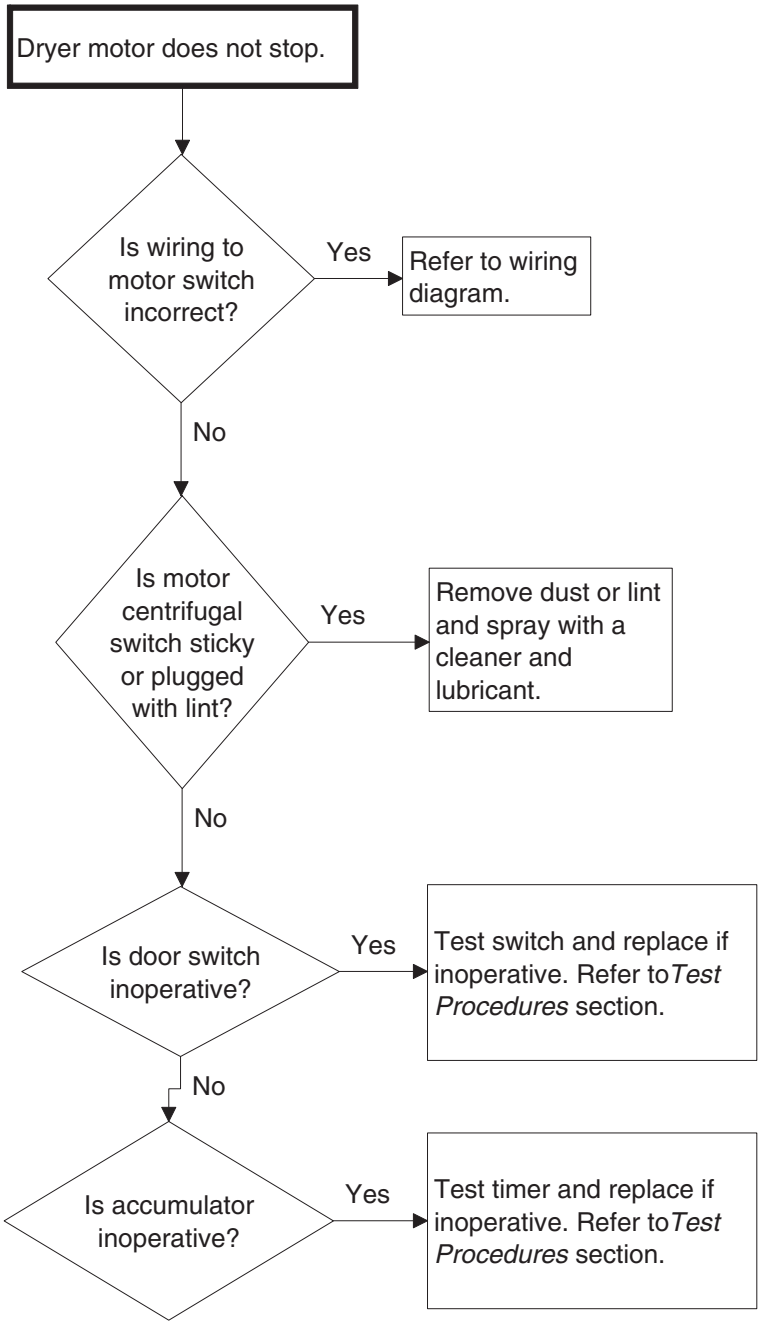
4. Dryer Motor Does Not Stop


Dryer motor does not stop.
Is wiring to motor switch incorrect?
Yes
Refer to wiring diagram.
No
Is motor centrifugal switch sticky or plugged with lint?
Yes
Remove dust or lint and spray with a cleaner and lubricant.
No
Is door switch inoperative?
Yes
Test switch and replace if inoperative. Refer to *Test Procedures* section.
No
Is accumulator inoperative?
Yes
Test timer and replace if inoperative. Refer to *Test Procedures* section.

DRY1847S

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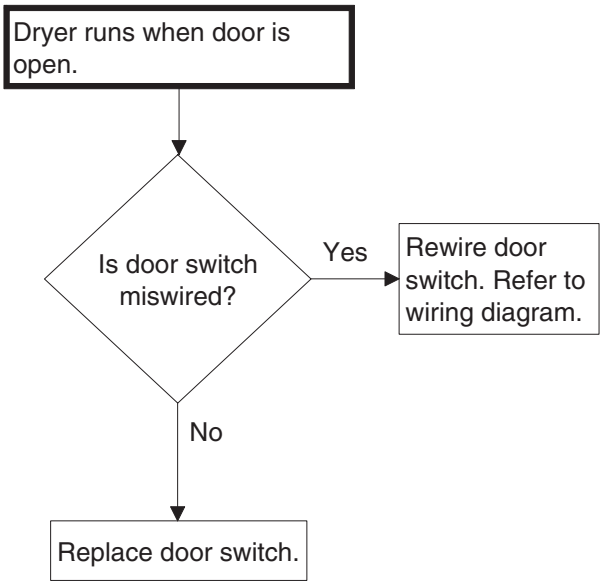
5. Dryer Runs Only When Door is Open



DRY1856S

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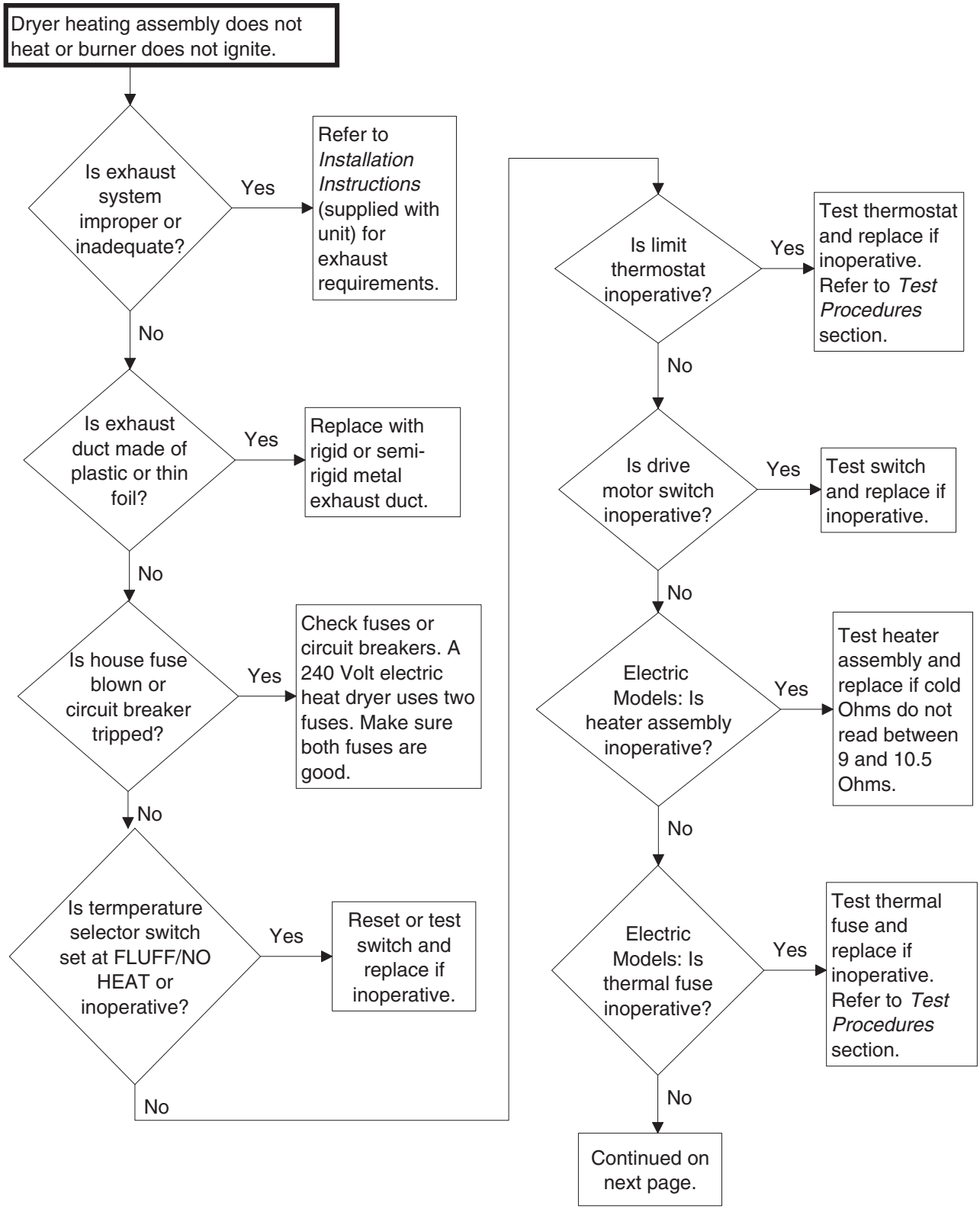
6. Dryer Heating Assembly Does Not Heat or Burner Does Not Ignite


Dryer heating assembly does not heat or burner does not ignite.
Is exhaust system improper or inadequate?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust requirements.
No
Is exhaust duct made of plastic or thin foil?
Yes
Replace with rigid or semi-rigid metal exhaust duct.
No
Is house fuse blown or circuit breaker tripped?
Yes
Check fuses or circuit breakers. A 240 Volt electric heat dryer uses two fuses. Make sure both fuses are good.
No
Is termperature selector switch set at FLUFF/NO HEAT or inoperative?
Yes
Reset or test switch and replace if inoperative.
No
Is limit thermostat inoperative?
Yes
Test thermostat and replace if inoperative. Refer to *Test Procedures* section.
No
Is drive motor switch inoperative?
Yes
Test switch and replace if inoperative.
No
Electric Models: Is heater assembly inoperative?
Yes
Test heater assembly and replace if cold Ohms do not read between 9 and 10.5 Ohms.
No
Electric Models: Is thermal fuse inoperative?
Yes
Test thermal fuse and replace if inoperative. Refer to *Test Procedures* section.
No
Continued on next page.

DRY1848Sa

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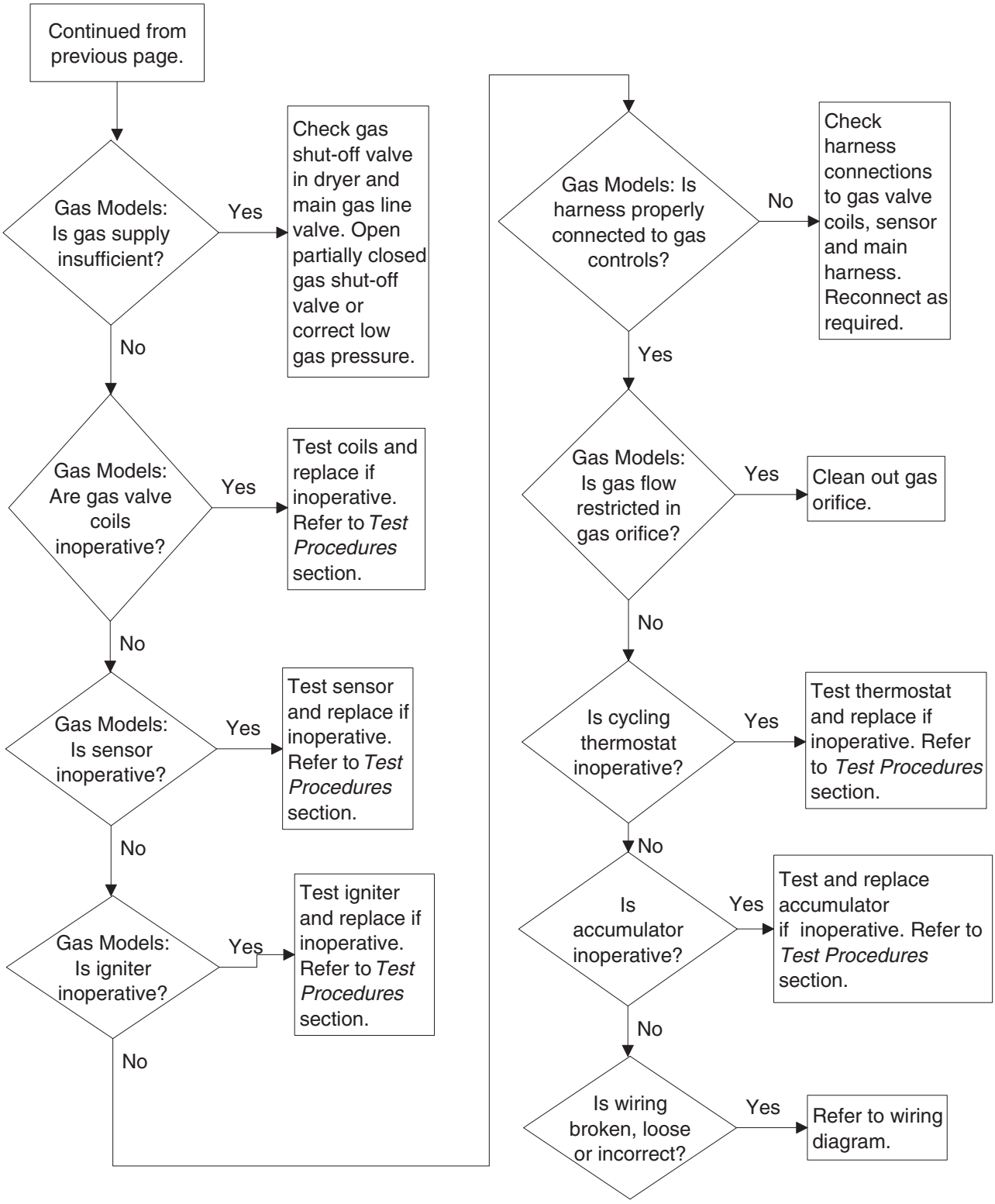
6. Dryer Heating Assembly Does Not Heat or Burner Does Not Ignite (continued)


Continued from previous page.
Gas Models: Is gas supply insufficient?
Yes
Check gas shut-off valve in dryer and main gas line valve. Open partially closed gas shut-off valve or correct low gas pressure.
No
Gas Models: Are gas valve coils inoperative?
Yes
Test coils and replace if inoperative. Refer to *Test Procedures* section.
No
Gas Models: Is sensor inoperative?
Yes
Test sensor and replace if inoperative. Refer to *Test Procedures* section.
No
Gas Models: Is igniter inoperative?
Yes
Test igniter and replace if inoperative. Refer to *Test Procedures* section.
No
Gas Models: Is harness properly connected to gas controls?
No
Check harness connections to gas valve coils, sensor and main harness. Reconnect as required.
Yes
Gas Models: Is gas flow restricted in gas orifice?
Yes
Clean out gas orifice.
No
Is cycling thermostat inoperative?
Yes
Test thermostat and replace if inoperative. Refer to *Test Procedures* section.
No
Is accumulator inoperative?
Yes
Test and replace accumulator if inoperative. Refer to *Test Procedures* section.
No
Is wiring broken, loose or incorrect?
Yes
Refer to wiring diagram.

DRY1848Sb

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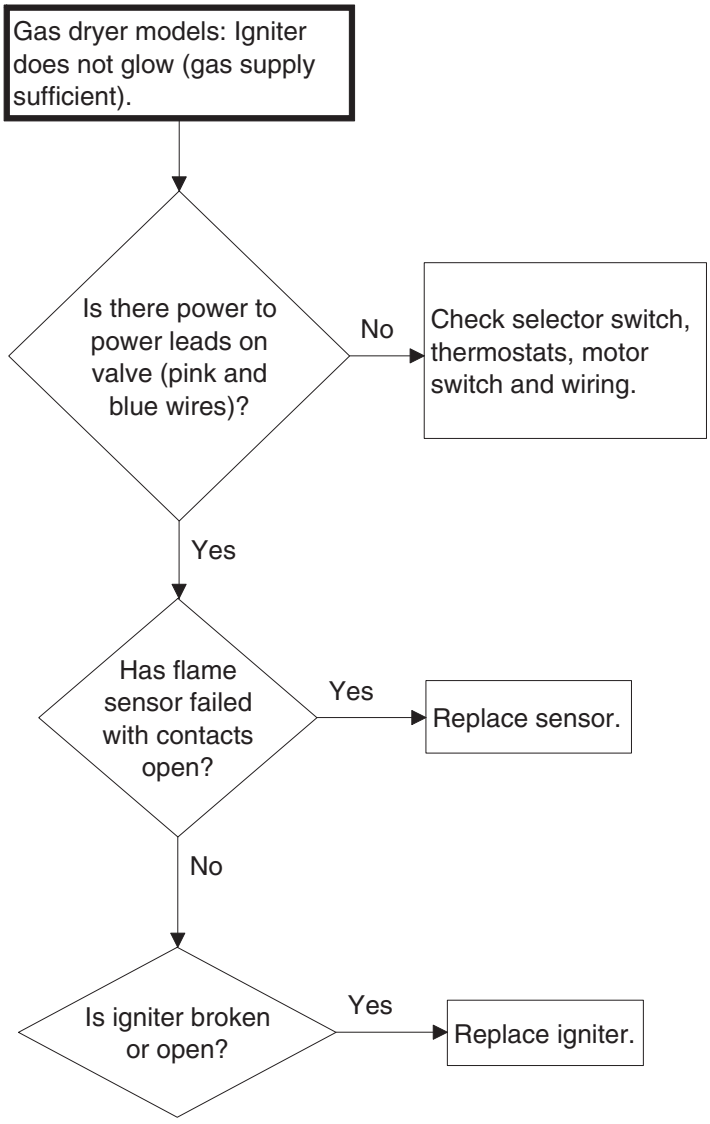
7. Igniter Does Not Glow (Gas Supply Sufficient) – Gas Dryer Models


Gas dryer models: Igniter does not glow (gas supply sufficient).
Is there power to power leads on valve (pink and blue wires)?
No
Check selector switch, thermostats, motor switch and wiring.
Yes
Has flame sensor failed with contacts open?
Yes
Replace sensor.
No
Is igniter broken or open?
Yes
Replace igniter.

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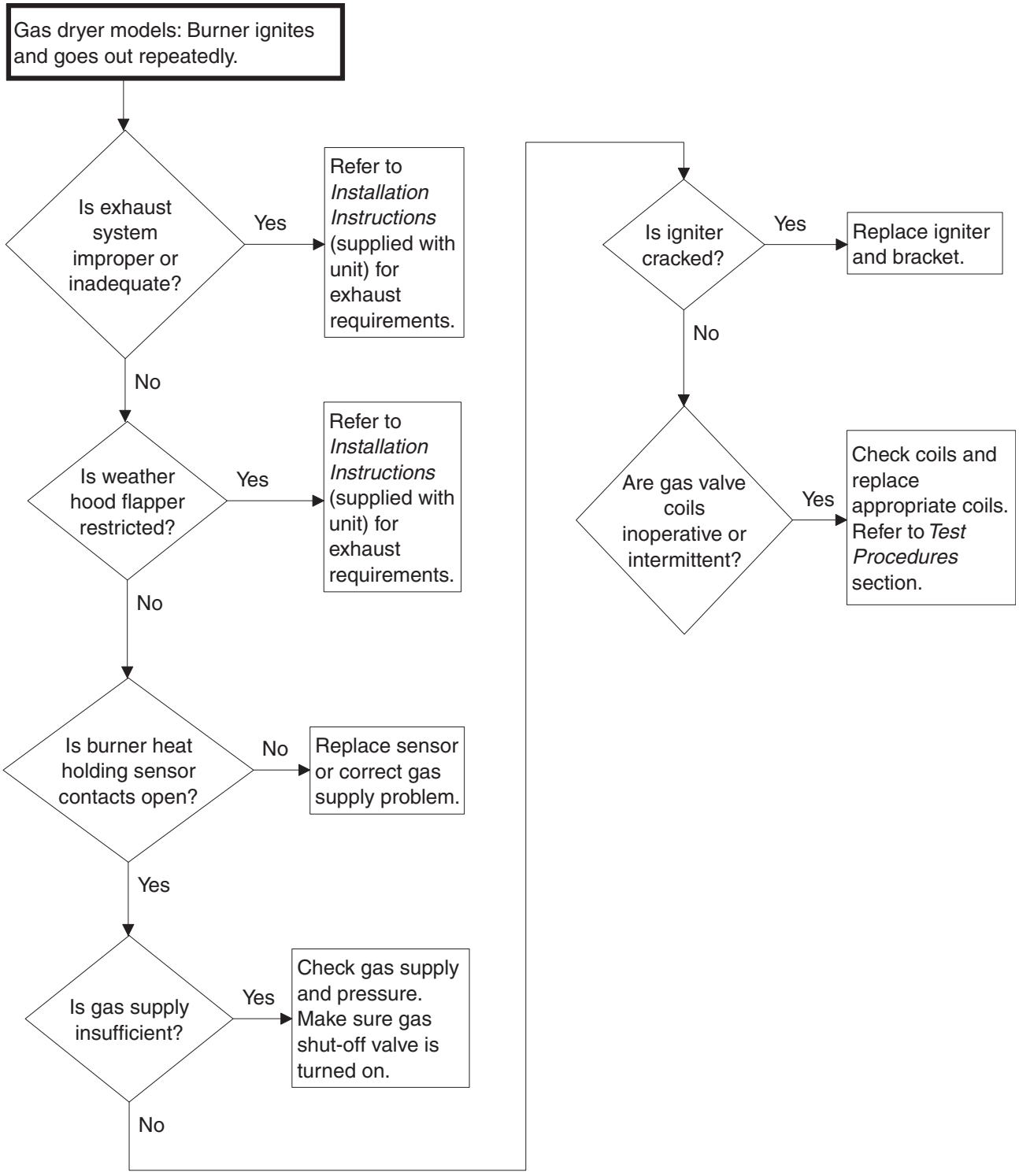
8. Burner Ignites and Goes Out Repeatedly – Gas Dryer Models


Gas dryer models: Burner ignites and goes out repeatedly.
Is exhaust system improper or inadequate?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust requirements.
No
Is weather hood flapper restricted?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust requirements.
No
Is burner heat holding sensor contacts open?
No
Replace sensor or correct gas supply problem.
Yes
Is gas supply insufficient?
Yes
Check gas supply and pressure. Make sure gas shut-off valve is turned on.
No
Is igniter cracked?
Yes
Replace igniter and bracket.
No
Are gas valve coils inoperative or intermittent?
Yes
Check coils and replace appropriate coils. Refer to *Test Procedures* section.

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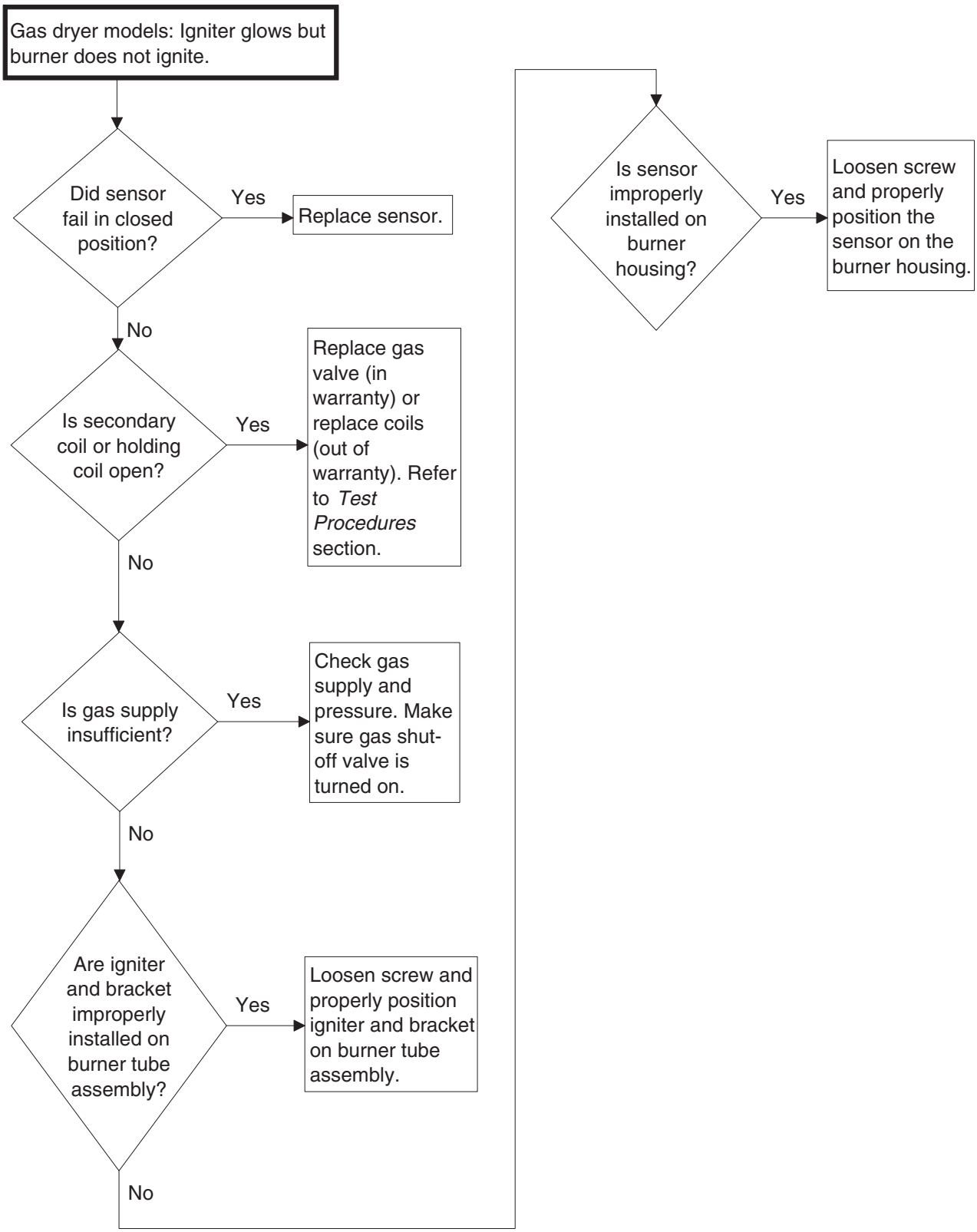
9. Igniter Glows But Burner Does Not Ignite – Gas Dryer Models


Gas dryer models: Igniter glows but burner does not ignite.
Did sensor fail in closed position?
Yes
Replace sensor.
No
Is secondary coil or holding coil open?
Yes
Replace gas valve (in warranty) or replace coils (out of warranty). Refer to *Test Procedures* section.
No
Is gas supply insufficient?
Yes
Check gas supply and pressure. Make sure gas shut-off valve is turned on.
No
Are igniter and bracket improperly installed on burner tube assembly?
Yes
Loosen screw and properly position igniter and bracket on burner tube assembly.
No
Is sensor improperly installed on burner housing?
Yes
Loosen screw and properly position the sensor on the burner housing.

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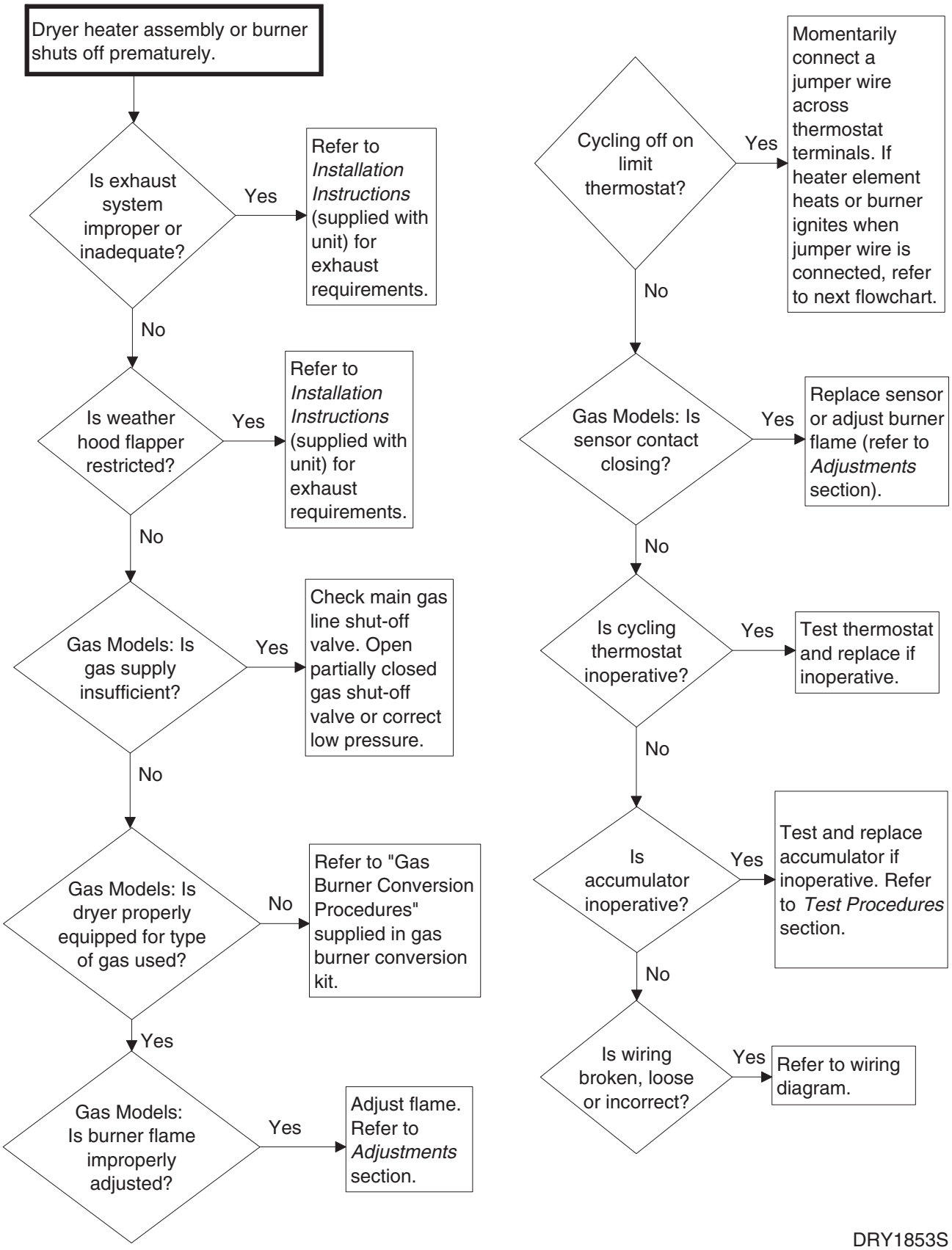
10. Dryer Heater Assembly Or Burner Shuts Off Prematurely


Dryer heater assembly or burner shuts off prematurely.
Is exhaust system improper or inadequate?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust requirements.
No
Is weather hood flapper restricted?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust requirements.
No
Gas Models: Is gas supply insufficient?
Yes
Check main gas line shut-off valve. Open partially closed gas shut-off valve or correct low pressure.
No
Gas Models: Is dryer properly equipped for type of gas used?
No
Refer to "Gas Burner Conversion Procedures" supplied in gas burner conversion kit.
Yes
Gas Models: Is burner flame improperly adjusted?
Yes
Adjust flame. Refer to *Adjustments* section.
Cycling off on limit thermostat?
Yes
Momentarily connect a jumper wire across thermostat terminals. If heater element heats or burner ignites when jumper wire is connected, refer to next flowchart.
No
Gas Models: Is sensor contact closing?
Yes
Replace sensor or adjust burner flame (refer to *Adjustments* section).
No
Is cycling thermostat inoperative?
Yes
Test thermostat and replace if inoperative.
No
Is accumulator inoperative?
Yes
Test and replace accumulator if inoperative. Refer to *Test Procedures* section.
No
Is wiring broken, loose or incorrect?
Yes
Refer to wiring diagram.

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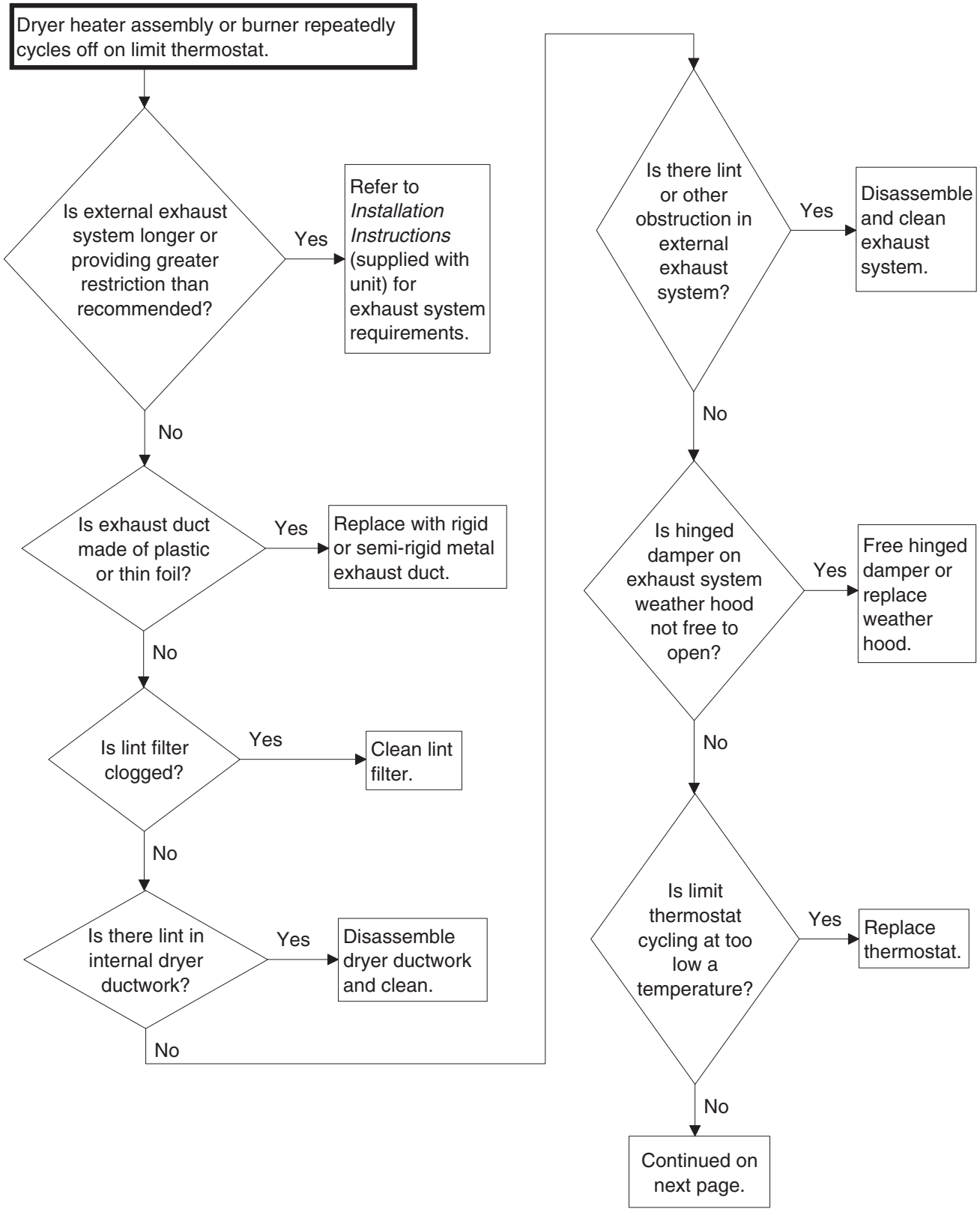
11. Dryer Heater Assembly or Burner Repeatedly Cycles Off On Limit Thermostat


Dryer heater assembly or burner repeatedly cycles off on limit thermostat.
Is external exhaust system longer or providing greater restriction than recommended?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust system requirements.
No
Is exhaust duct made of plastic or thin foil?
Yes
Replace with rigid or semi-rigid metal exhaust duct.
No
Is lint filter clogged?
Yes
Clean lint filter.
No
Is there lint in internal dryer ductwork?
Yes
Disassemble dryer ductwork and clean.
No
Is there lint or other obstruction in external exhaust system?
Yes
Disassemble and clean exhaust system.
No
Is hinged damper on exhaust system weather hood not free to open?
Yes
Free hinged damper or replace weather hood.
No
Is limit thermostat cycling at too low a temperature?
Yes
Replace thermostat.
No
Continued on next page.

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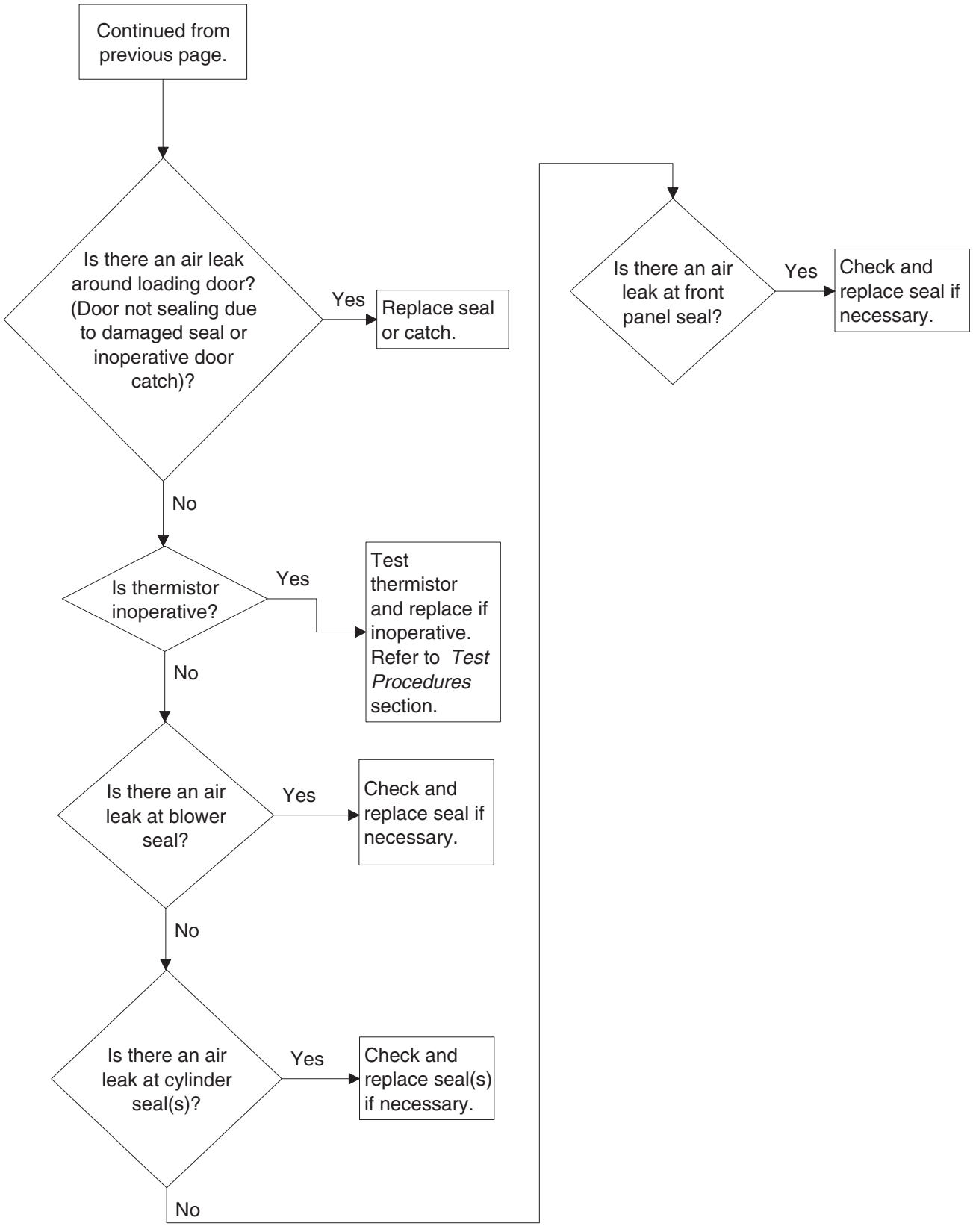
11. Dryer Heater Assembly or Burner Repeatedly Cycles Off On Limit Thermostat (continued)


Continued from previous page.
Is there an air leak around loading door? (Door not sealing due to damaged seal or inoperative door catch)?
Yes
Replace seal or catch.
No
Is thermistor inoperative?
Yes
Test thermistor and replace if inoperative. Refer to *Test Procedures* section.
No
Is there an air leak at blower seal?
Yes
Check and replace seal if necessary.
No
Is there an air leak at cylinder seal(s)?
Yes
Check and replace seal(s) if necessary.
No
Is there an air leak at front panel seal?
Yes
Check and replace seal if necessary.

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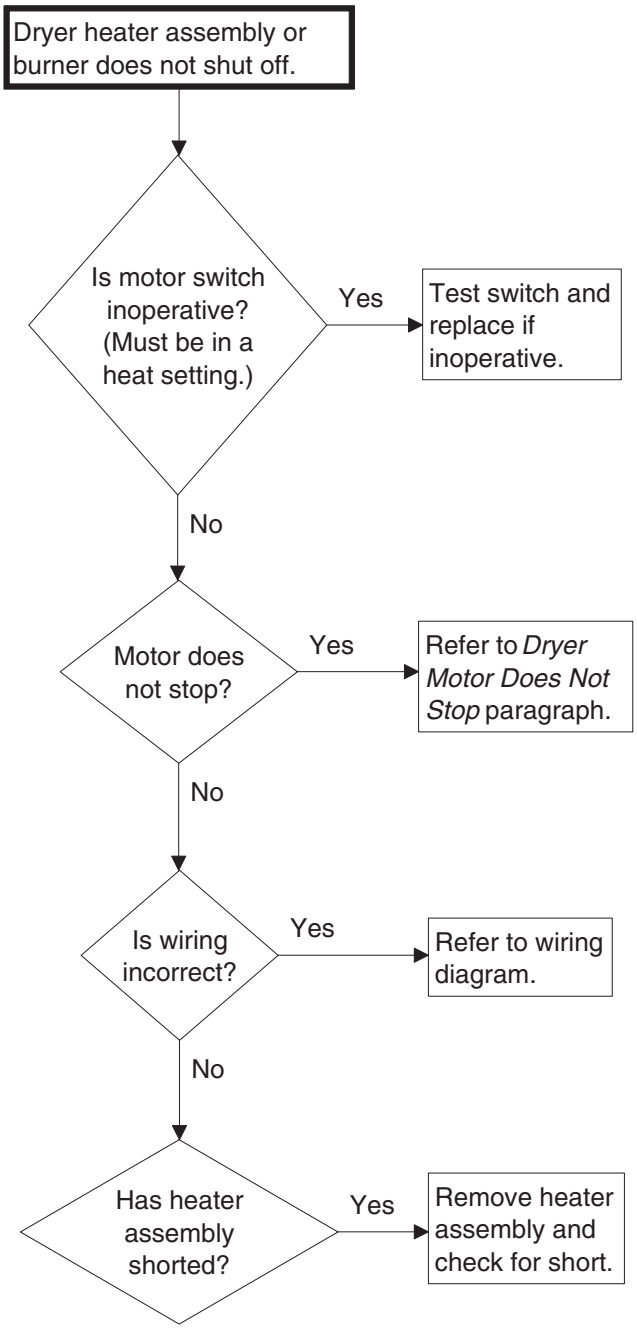
12. Dryer Heater Assembly or Burner Does Not Shut Off



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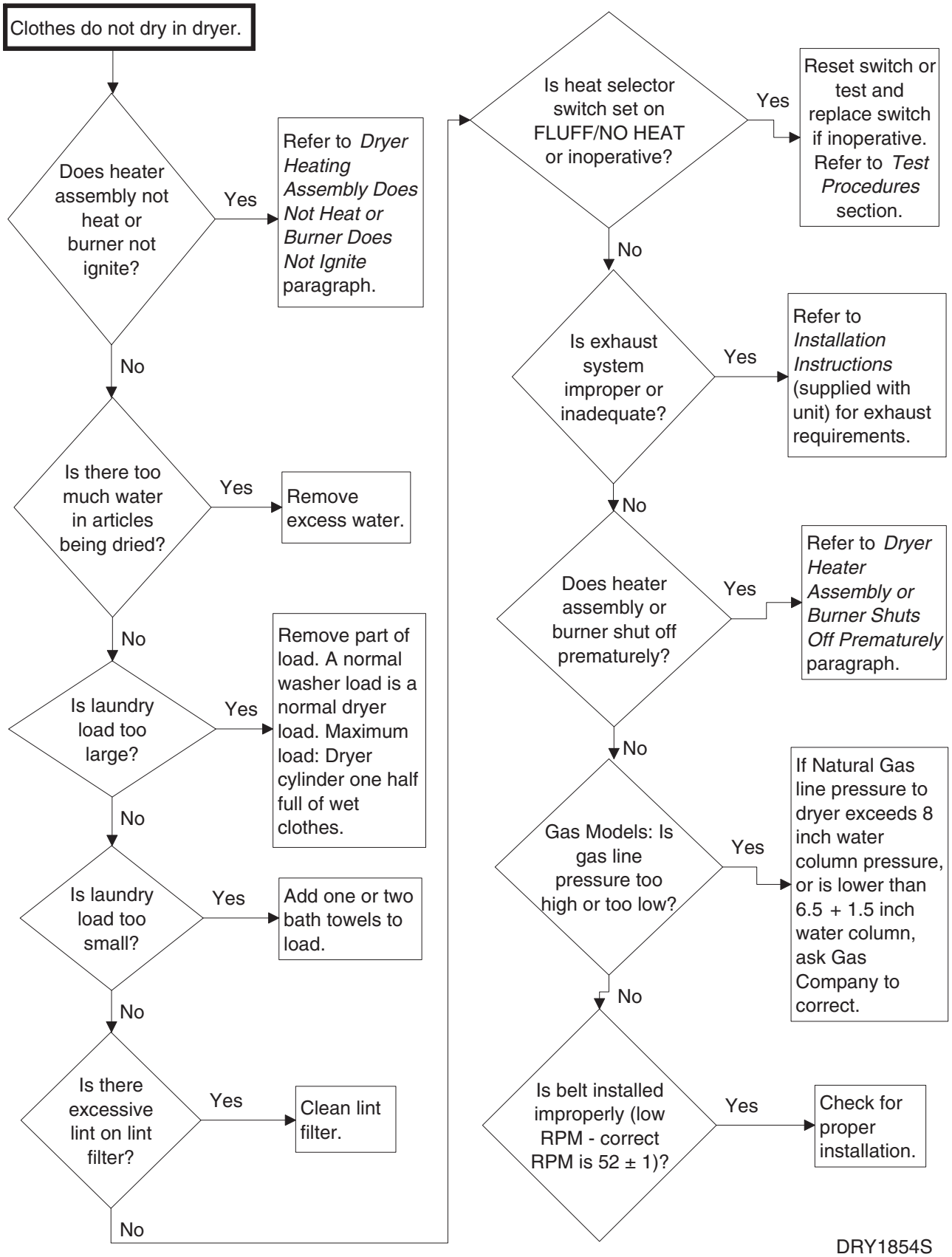
13. Clothes Do Not Dry in Dryer


Clothes do not dry in dryer.
Does heater assembly not heat or burner not ignite?
Yes
Refer to *Dryer Heating Assembly Does Not Heat or Burner Does Not Ignite* paragraph.
No
Is there too much water in articles being dried?
Yes
Remove excess water.
No
Is laundry load too large?
Yes
Remove part of load. A normal washer load is a normal dryer load. Maximum load: Dryer cylinder one half full of wet clothes.
No
Is laundry load too small?
Yes
Add one or two bath towels to load.
No
Is there excessive lint on lint filter?
Yes
Clean lint filter.
No
Is heat selector switch set on FLUFF/NO HEAT or inoperative?
Yes
Reset switch or test and replace switch if inoperative. Refer to *Test Procedures* section.
No
Is exhaust system improper or inadequate?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust requirements.
No
Does heater assembly or burner shut off prematurely?
Yes
Refer to *Dryer Heater Assembly or Burner Shuts Off Prematurely* paragraph.
No
Gas Models: Is gas line pressure too high or too low?
Yes
If Natural Gas line pressure to dryer exceeds 8 inch water column pressure, or is lower than 6.5 + 1.5 inch water column, ask Gas Company to correct.
No
Is belt installed improperly (low RPM - correct RPM is 52 ± 1)?
Yes
Check for proper installation.

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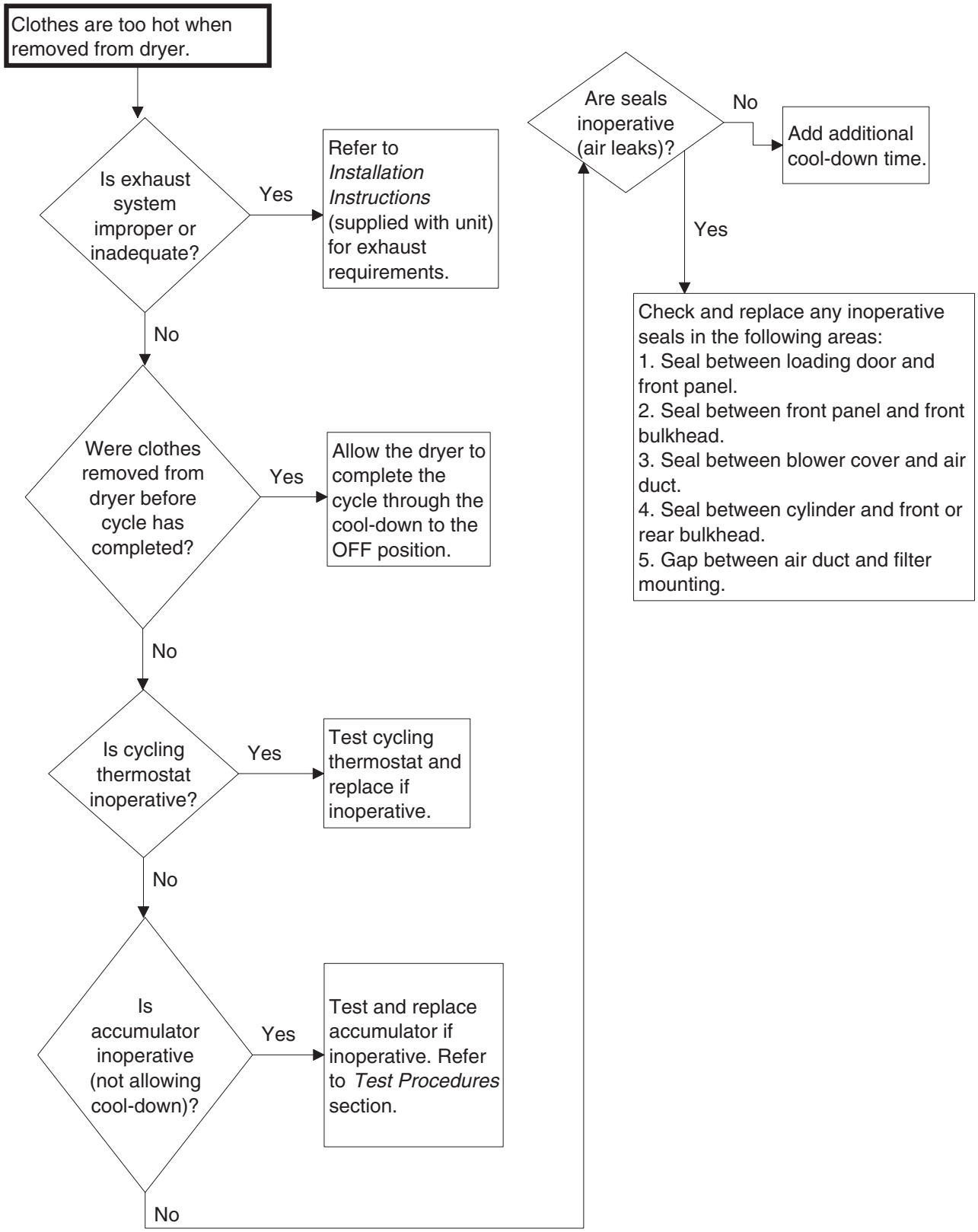
14. Clothes Are Too Hot When Removed From Dryer


Clothes are too hot when removed from dryer.
Is exhaust system improper or inadequate?
Yes
Refer to *Installation Instructions* (supplied with unit) for exhaust requirements.
No
Were clothes removed from dryer before cycle has completed?
Yes
Allow the dryer to complete the cycle through the cool-down to the OFF position.
No
Is cycling thermostat inoperative?
Yes
Test cycling thermostat and replace if inoperative.
No
Is accumulator inoperative (not allowing cool-down)?
Yes
Test and replace accumulator if inoperative. Refer to *Test Procedures* section.
No
Are seals inoperative (air leaks)?
No
Add additional cool-down time.
Yes
Check and replace any inoperative seals in the following areas:
1. Seal between loading door and front panel.
2. Seal between front panel and front bulkhead.
3. Seal between blower cover and air duct.
4. Seal between cylinder and front or rear bulkhead.
5. Gap between air duct and filter mounting.

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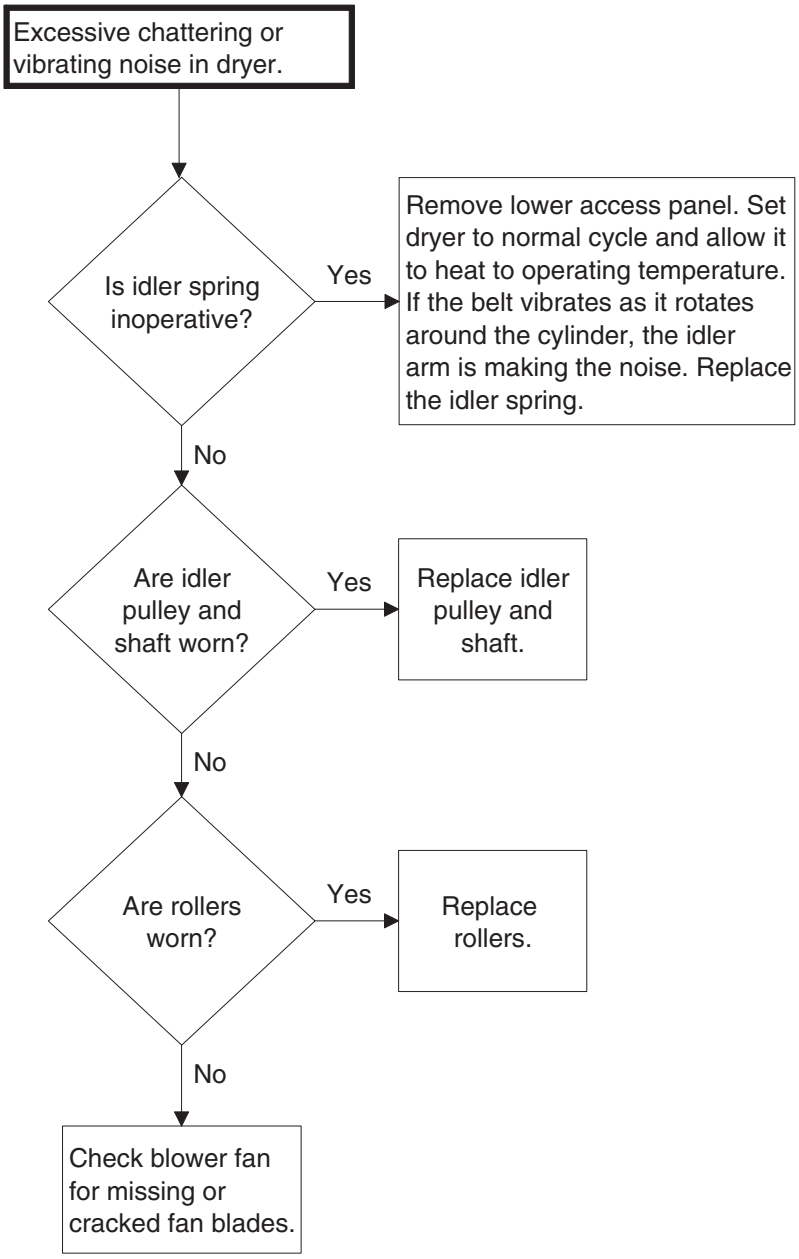
15. Excessive Chattering Or Vibrating Noise in Dryer


Excessive chattering or vibrating noise in dryer.
Is idler spring inoperative?
Yes
Remove lower access panel. Set dryer to normal cycle and allow it to heat to operating temperature. If the belt vibrates as it rotates around the cylinder, the idler arm is making the noise. Replace the idler spring.
No
Are idler pulley and shaft worn?
Yes
Replace idler pulley and shaft.
No
Are rollers worn?
Yes
Replace rollers.
No
Check blower fan for missing or cracked fan blades.

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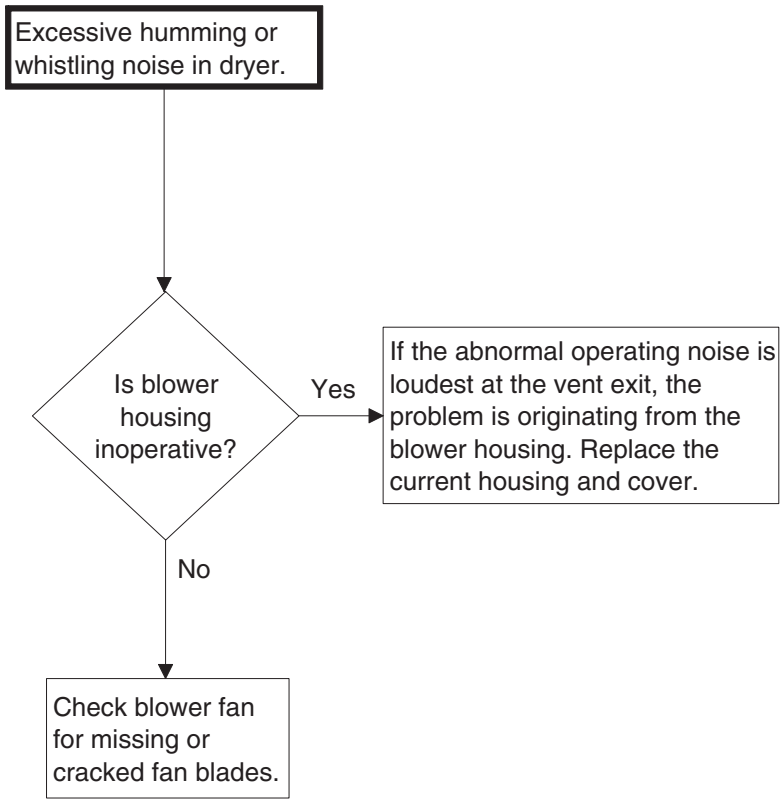
16. Excessive Humming Or Whistling Noise in Dryer


Excessive humming or whistling noise in dryer.
Is blower housing inoperative?
Yes
If the abnormal operating noise is loudest at the vent exit, the problem is originating from the blower housing. Replace the current housing and cover.
No
Check blower fan for missing or cracked fan blades.

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Section 4
Coin Slide Control Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

IMPORTANT: Refer to wiring diagram for aid in testing dryer components.

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17. Error Display Mode

The control enters Error Display Mode to display thermistor errors. The heater is turned off, the IN USE LED flashes to indicate the error (refer to paragraphs below), and the timer will continue to count down time. The control remains in Error Display Mode until the control senses the thermistor has returned to an acceptable heating range, the cycle ends or machine is powered down.

a. Open Thermistor

If the control senses a temperature less than 0°F when the heat has been on for at least three minutes it will set an open thermistor error. The control will flash the IN USE LED twice separated by a one and a half second pause. This sequence is repeated as long as the Open Thermistor error is sensed.

b. Shorted Thermistor

If the control senses a temperature greater than 210 ± 4°F during an active cycle it will set a Shorted Thermistor error. The control will flash the IN USE LED three times separated by a one and a half second pause. This sequence is repeated as long as the Shorted Thermistor error is sensed.

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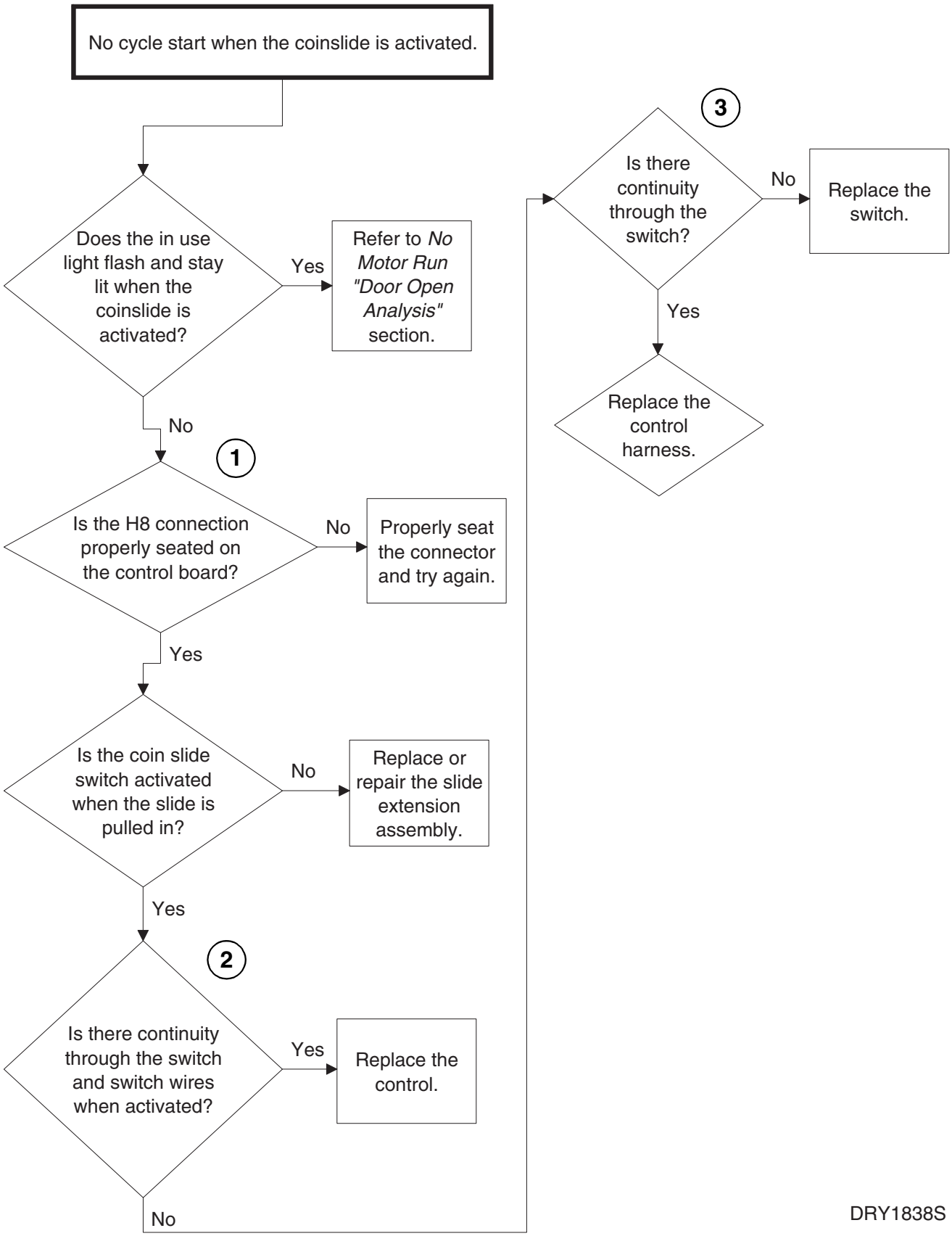
18. No Cycle Start When the Coinslide is Activated


No cycle start when the coinslide is activated.
Does the in use light flash and stay lit when the coinslide is activated?
Yes
Refer to *No Motor Run "Door Open Analysis"* section.
No
1
Is the H8 connection properly seated on the control board?
No
Properly seat the connector and try again.
Yes
Is the coin slide switch activated when the slide is pulled in?
No
Replace or repair the slide extension assembly.
Yes
2
Is there continuity through the switch and switch wires when activated?
Yes
Replace the control.
No
3
Is there continuity through the switch?
No
Replace the switch.
Yes
Replace the control harness.
DRY1838S

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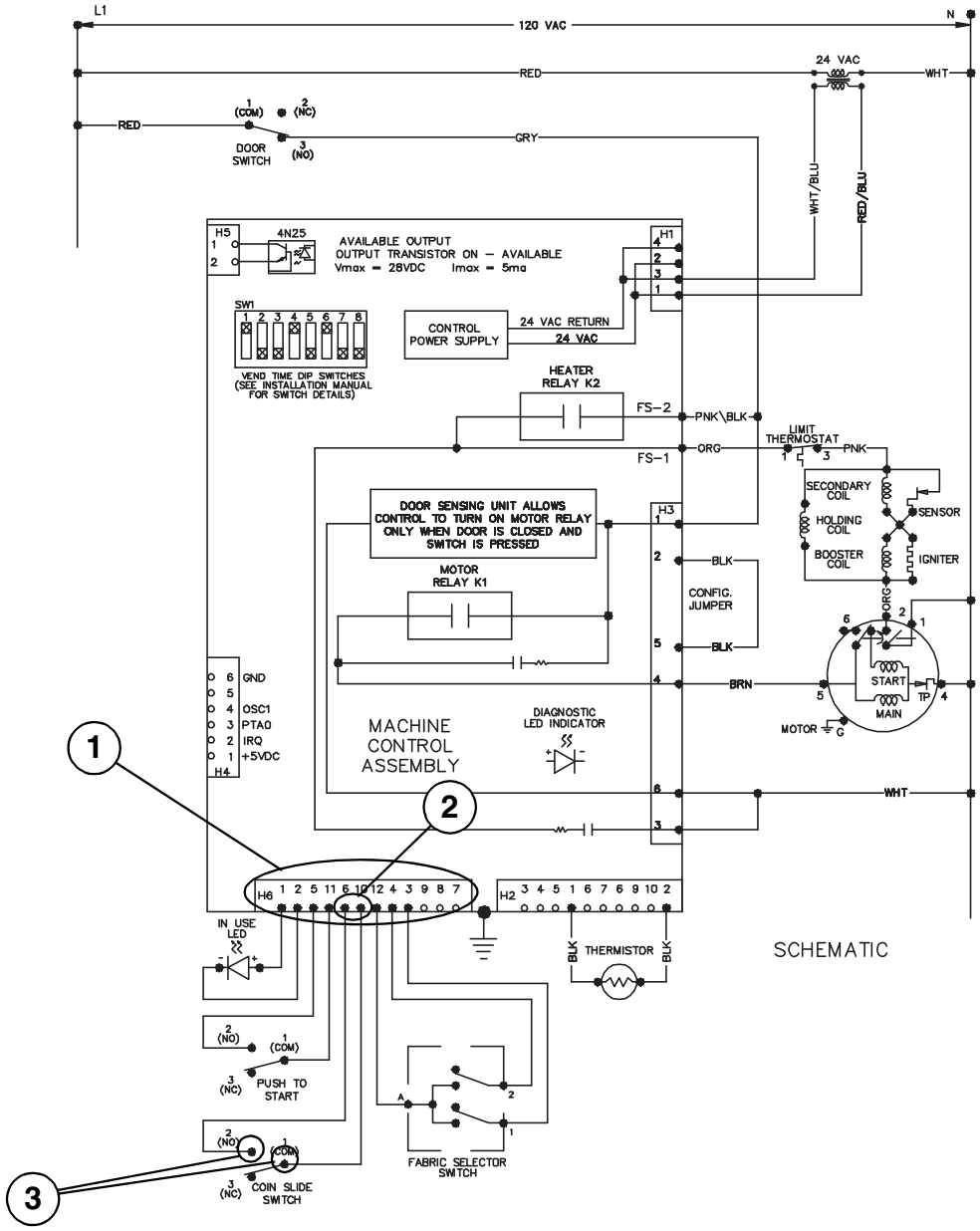
No Cycle Start When the Coinslide is activated



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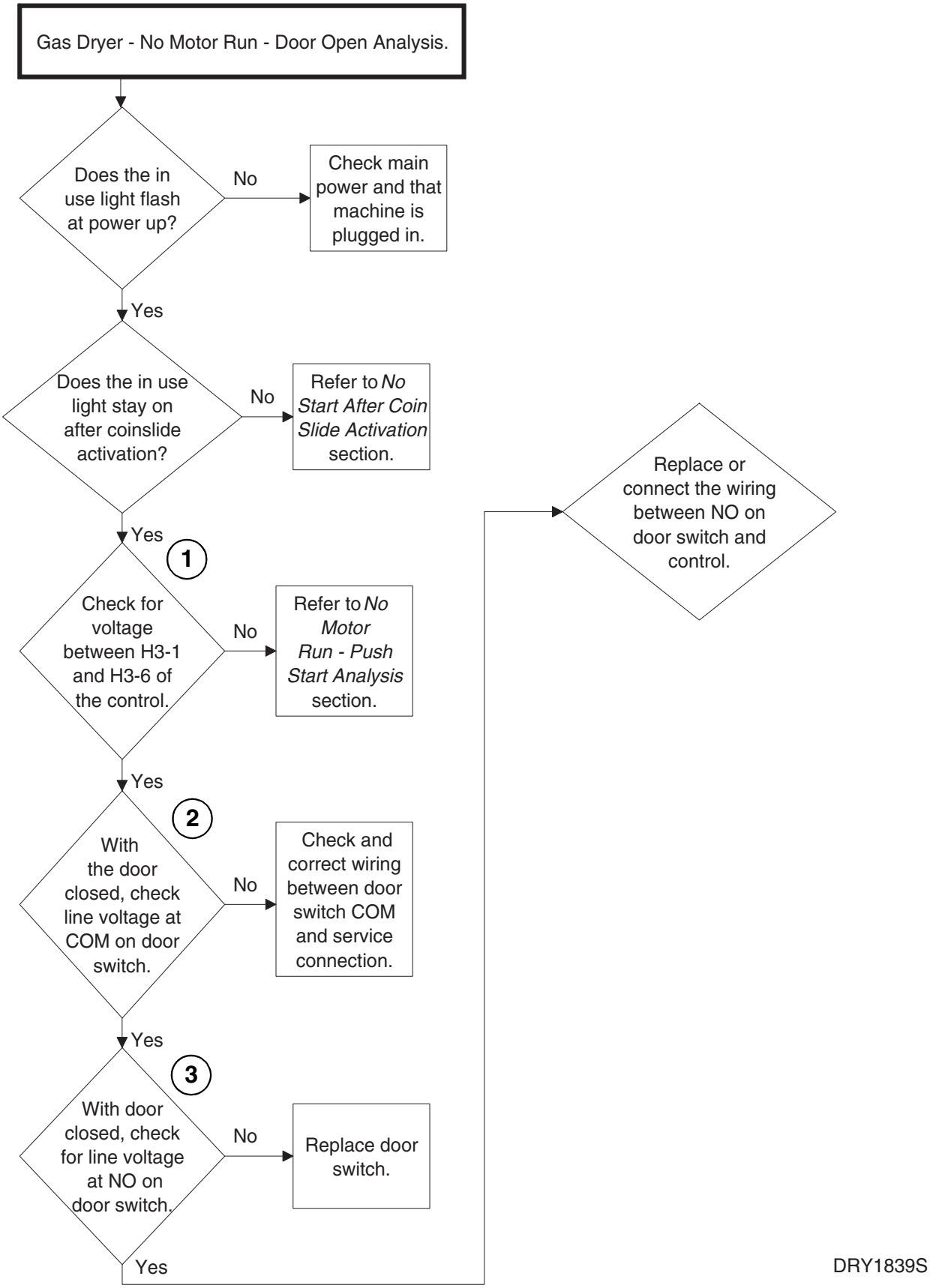
19. Gas Dryer – No Motor Run – Door Open Analysis


Gas Dryer - No Motor Run - Door Open Analysis.
Does the in use light flash at power up?
No
Check main power and that machine is plugged in.
Yes
Does the in use light stay on after coinslide activation?
No
Refer to *No Start After Coin Slide Activation* section.
Yes
1
Check for voltage between H3-1 and H3-6 of the control.
No
Refer to *No Motor Run - Push Start Analysis* section.
Yes
2
With the door closed, check line voltage at COM on door switch.
No
Check and correct wiring between door switch COM and service connection.
Yes
3
With door closed, check for line voltage at NO on door switch.
No
Replace door switch.
Yes
Replace or connect the wiring between NO on door switch and control.
DRY1839S

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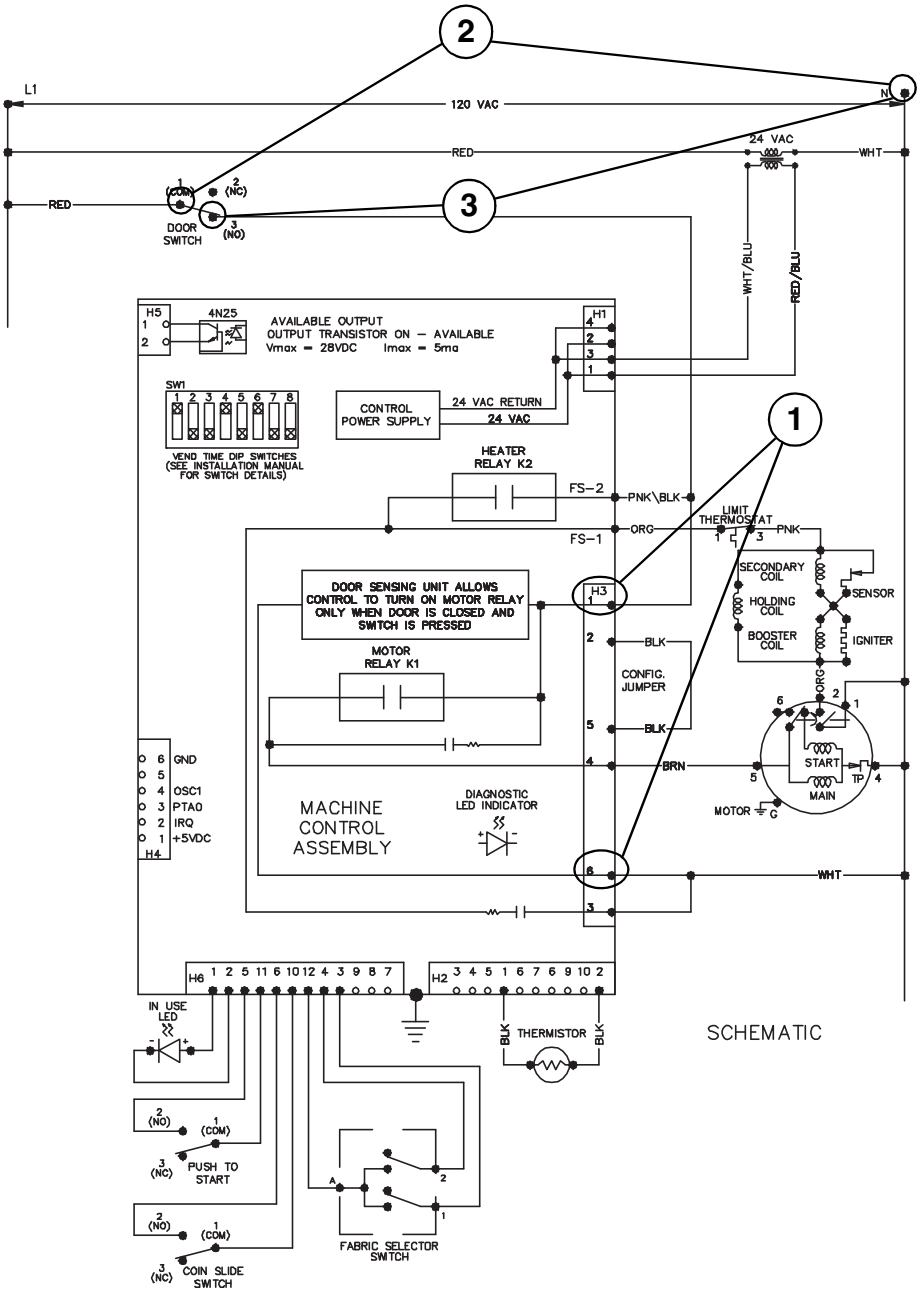
Gas Dryer – No Motor Run – Door Open Analysis



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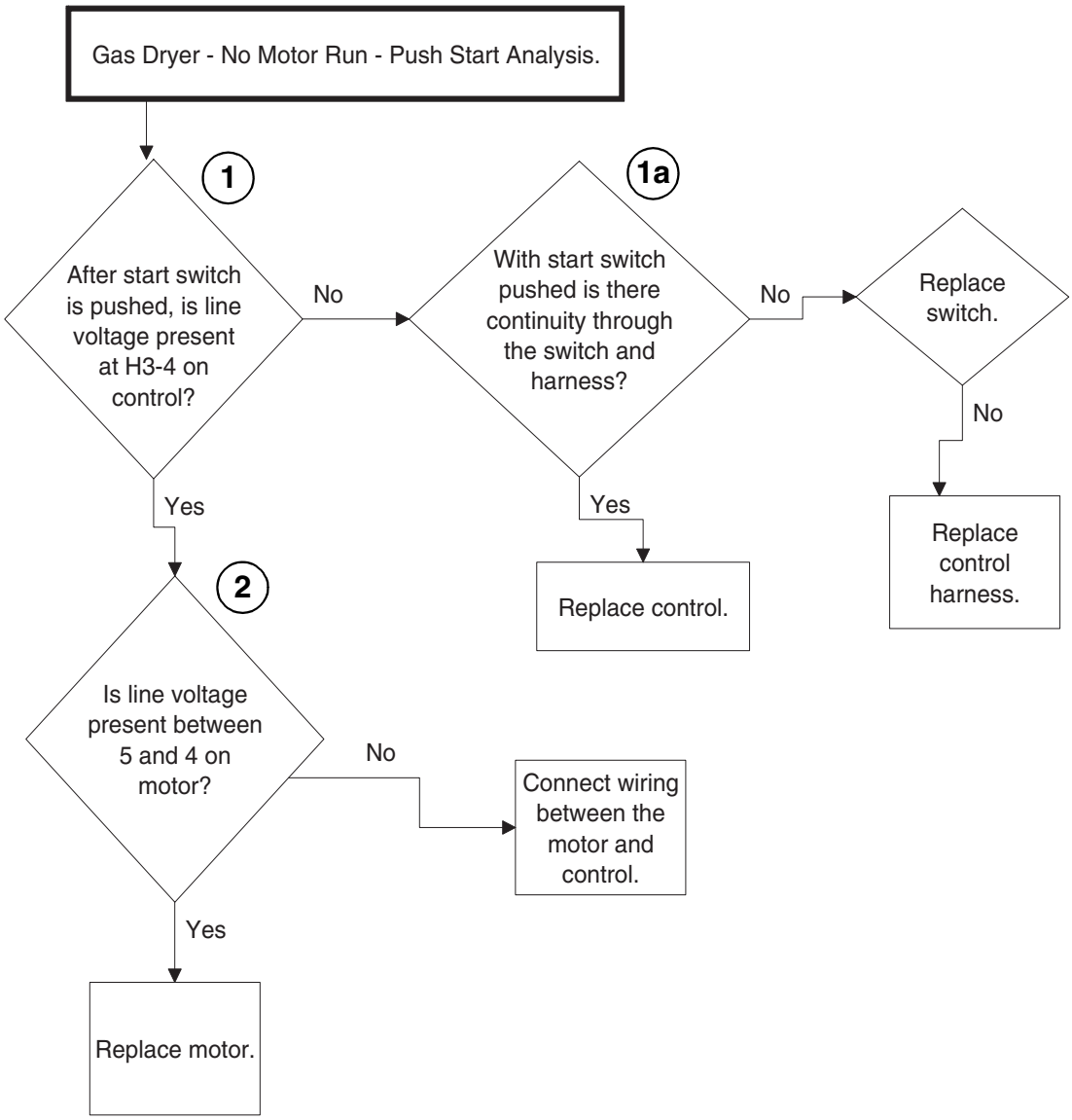
20. Gas Dryer – No Motor Run – Push Start Analysis



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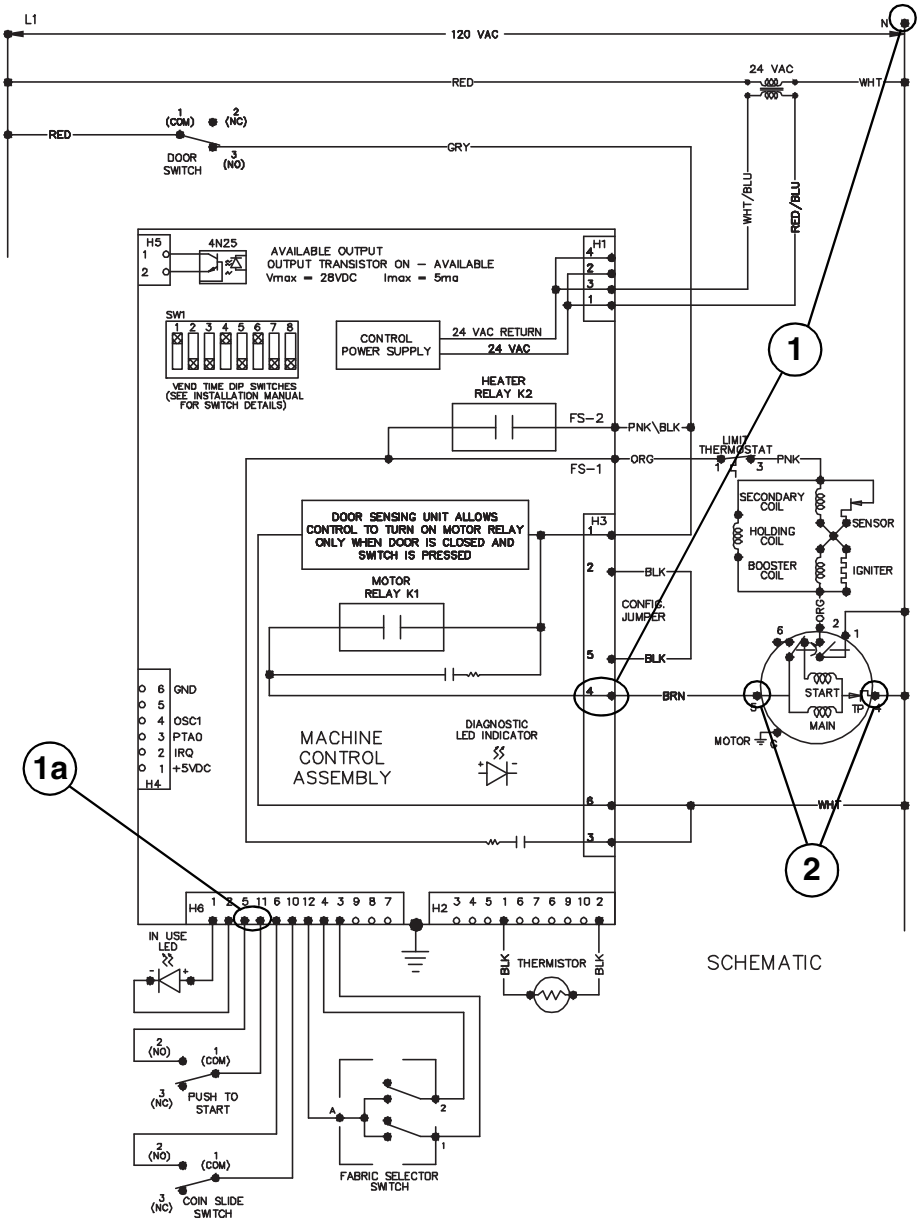
Gas Dryer – No Motor Run – Push Start Analysis



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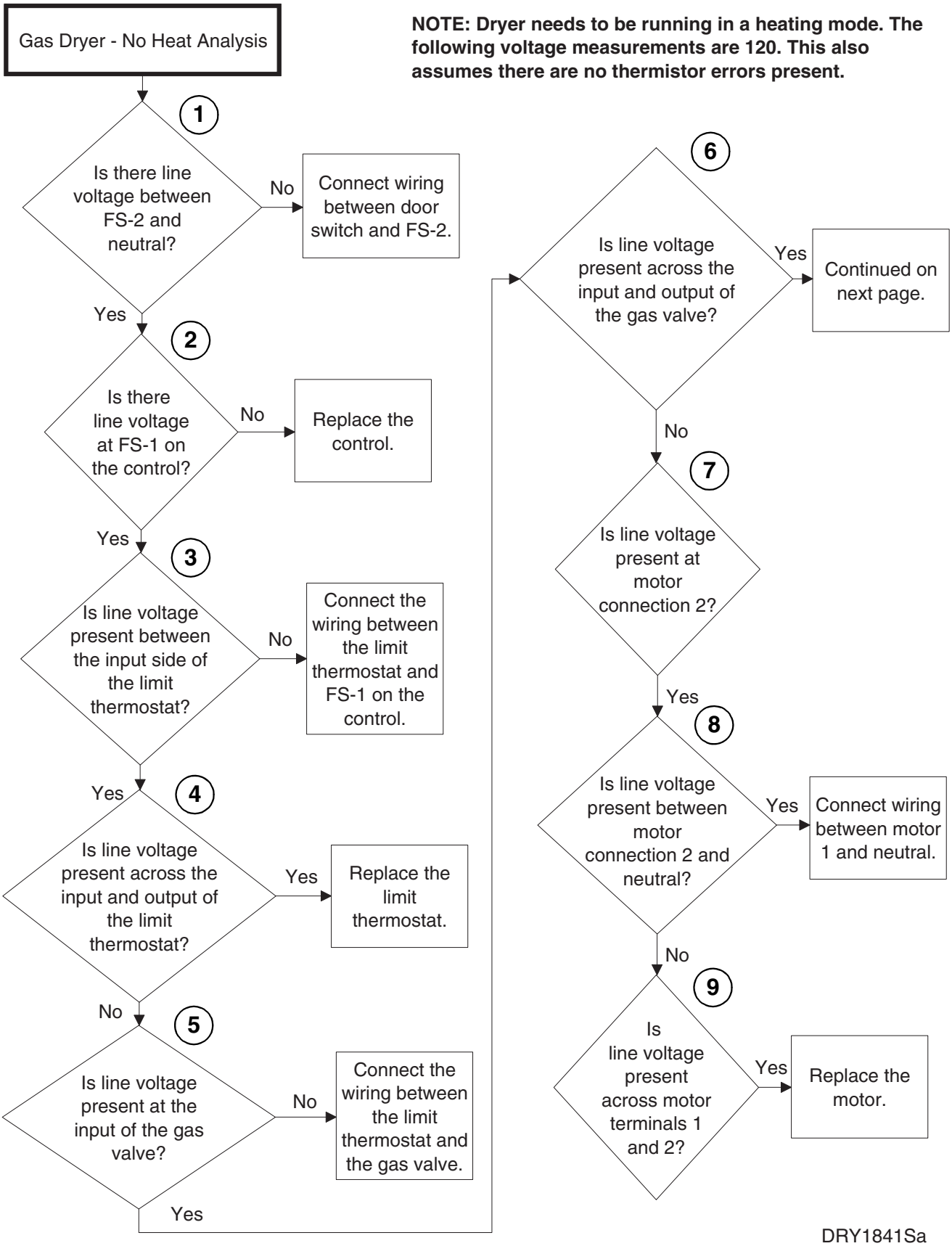
21. Gas Dryer – No Heat Analysis


Gas Dryer - No Heat Analysis
NOTE: Dryer needs to be running in a heating mode. The following voltage measurements are 120. This also assumes there are no thermistor errors present.
1
Is there line voltage between FS-2 and neutral?
No
Connect wiring between door switch and FS-2.
Yes
2
Is there line voltage at FS-1 on the control?
No
Replace the control.
Yes
3
Is line voltage present between the input side of the limit thermostat?
No
Connect the wiring between the limit thermostat and FS-1 on the control.
Yes
4
Is line voltage present across the input and output of the limit thermostat?
Yes
Replace the limit thermostat.
No
5
Is line voltage present at the input of the gas valve?
No
Connect the wiring between the limit thermostat and the gas valve.
Yes
6
Is line voltage present across the input and output of the gas valve?
Yes
Continued on next page.
No
7
Is line voltage present at motor connection 2?
Yes
8
Is line voltage present between motor connection 2 and neutral?
Yes
Connect wiring between motor 1 and neutral.
No
9
Is line voltage present across motor terminals 1 and 2?
Yes
Replace the motor.
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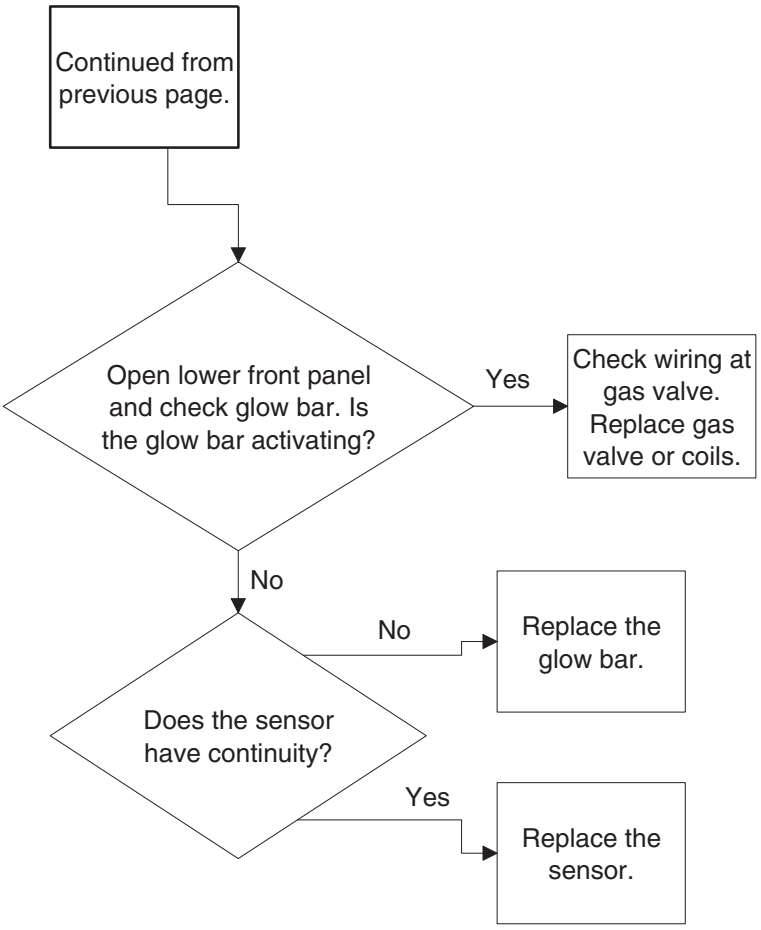
21. Gas Dryer – No Heat Analysis (continued)


Continued from previous page.
Open lower front panel and check glow bar. Is the glow bar activating?
Yes
Check wiring at gas valve. Replace gas valve or coils.
No
Does the sensor have continuity?
No
Replace the glow bar.
Yes
Replace the sensor.

DRY1841Sb

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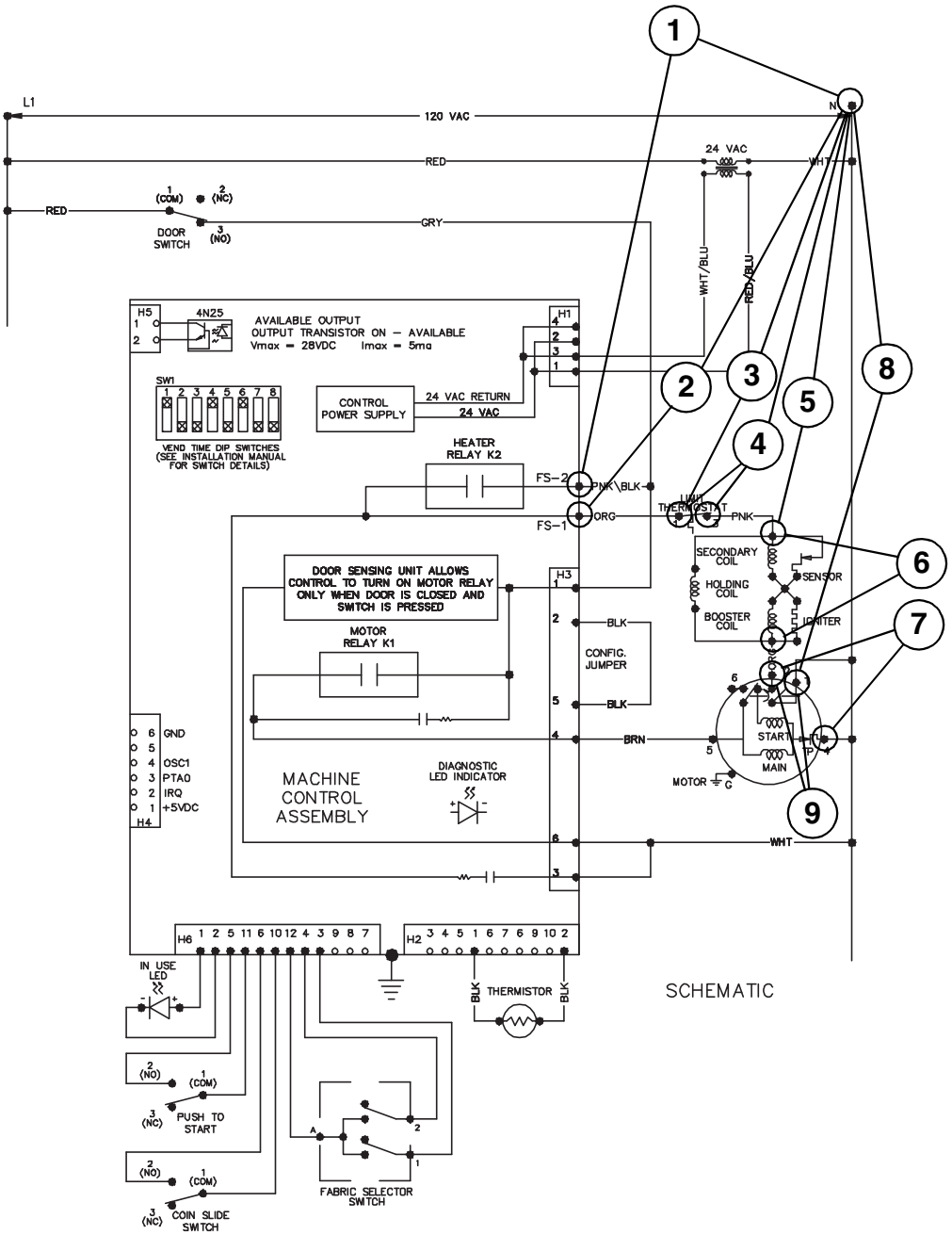
Gas Dryer – No Heat Analysis



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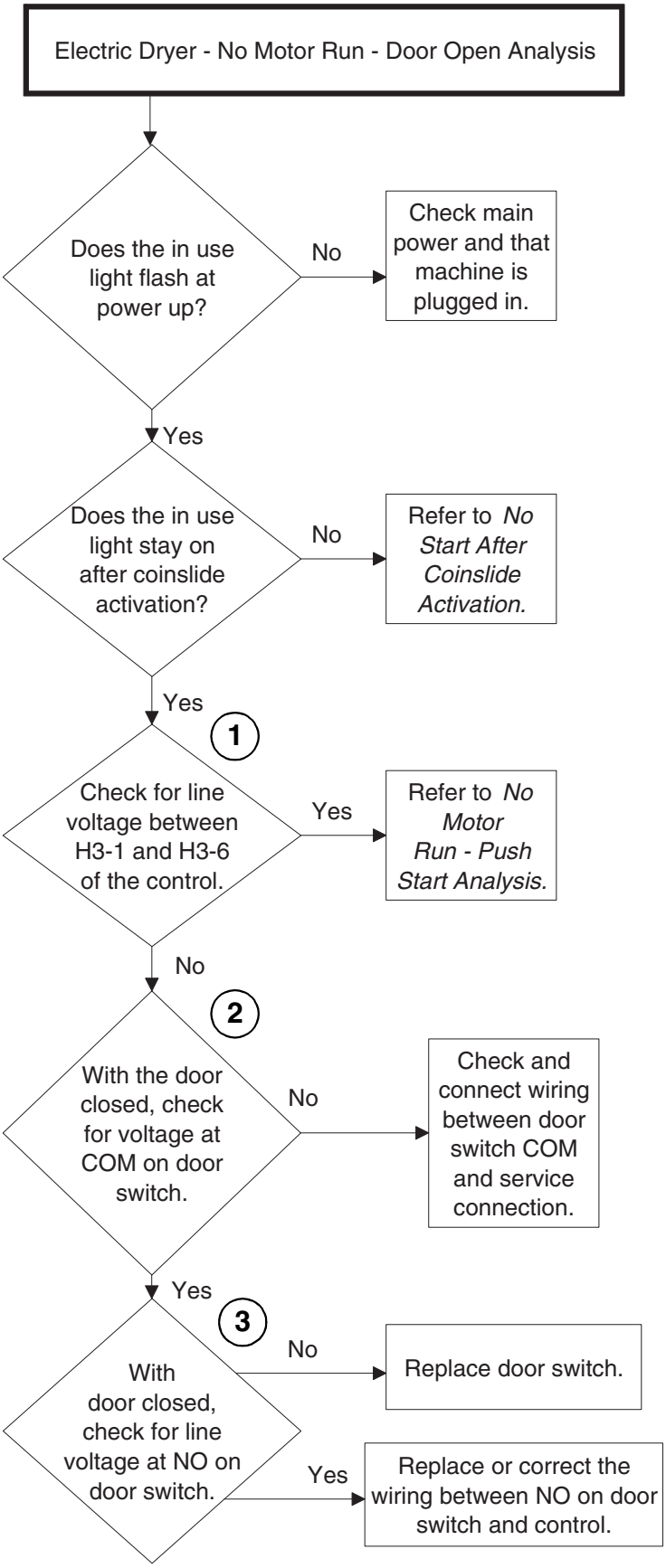
22. Electric Dryer – No Motor Run – Door Open Analysis


Electric Dryer - No Motor Run - Door Open Analysis
Does the in use light flash at power up?
No
Check main power and that machine is plugged in.
Yes
Does the in use light stay on after coinslide activation?
No
Refer to *No Start After Coinslide Activation.*
Yes
1
Check for line voltage between H3-1 and H3-6 of the control.
Yes
Refer to *No Motor Run - Push Start Analysis.*
No
2
With the door closed, check for voltage at COM on door switch.
No
Check and connect wiring between door switch COM and service connection.
Yes
3
With door closed, check for line voltage at NO on door switch.
No
Replace door switch.
Yes
Replace or correct the wiring between NO on door switch and control.

DRY1842S

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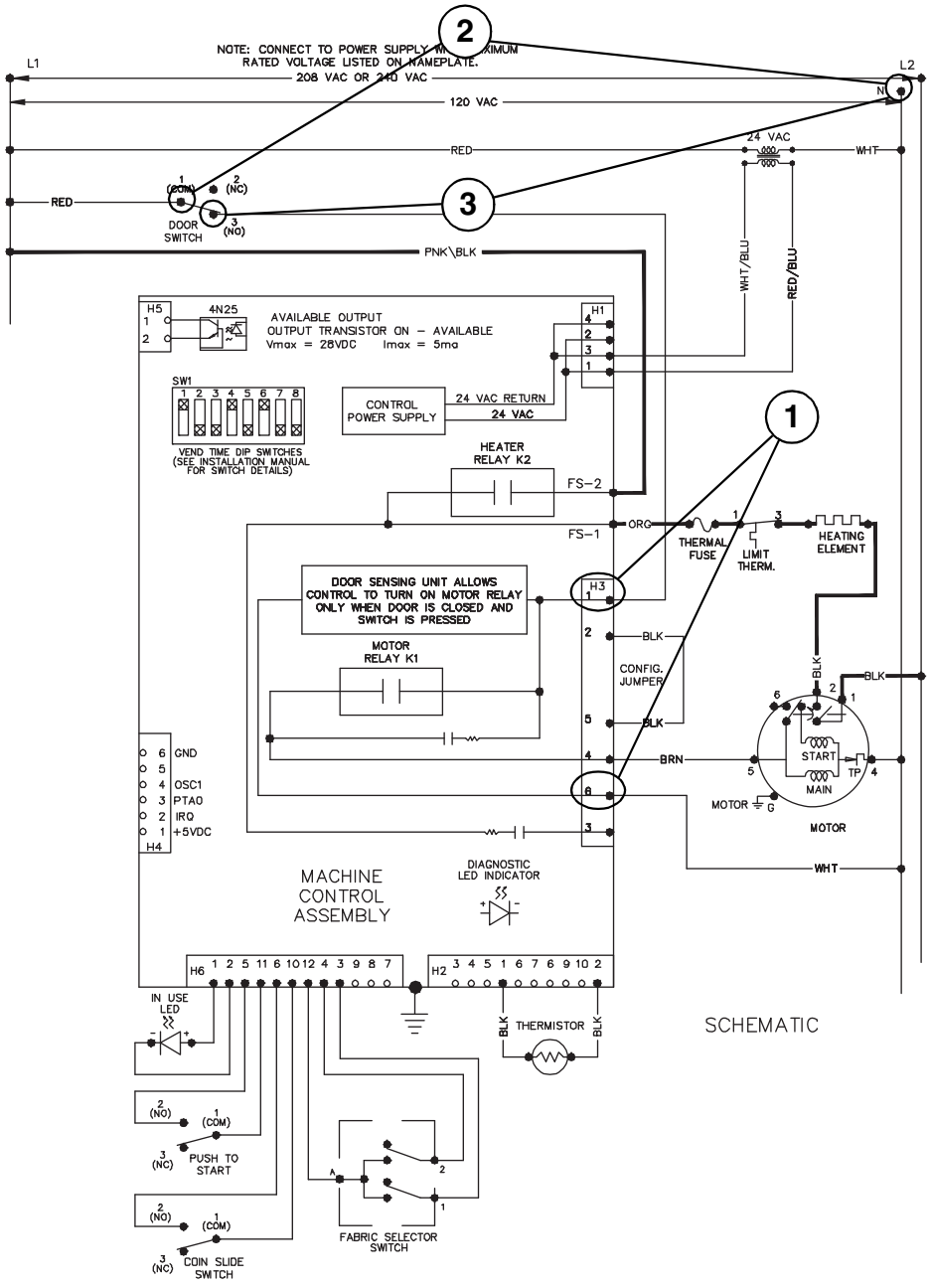
Electric Dryer – No Motor Run – Door Open Analysis



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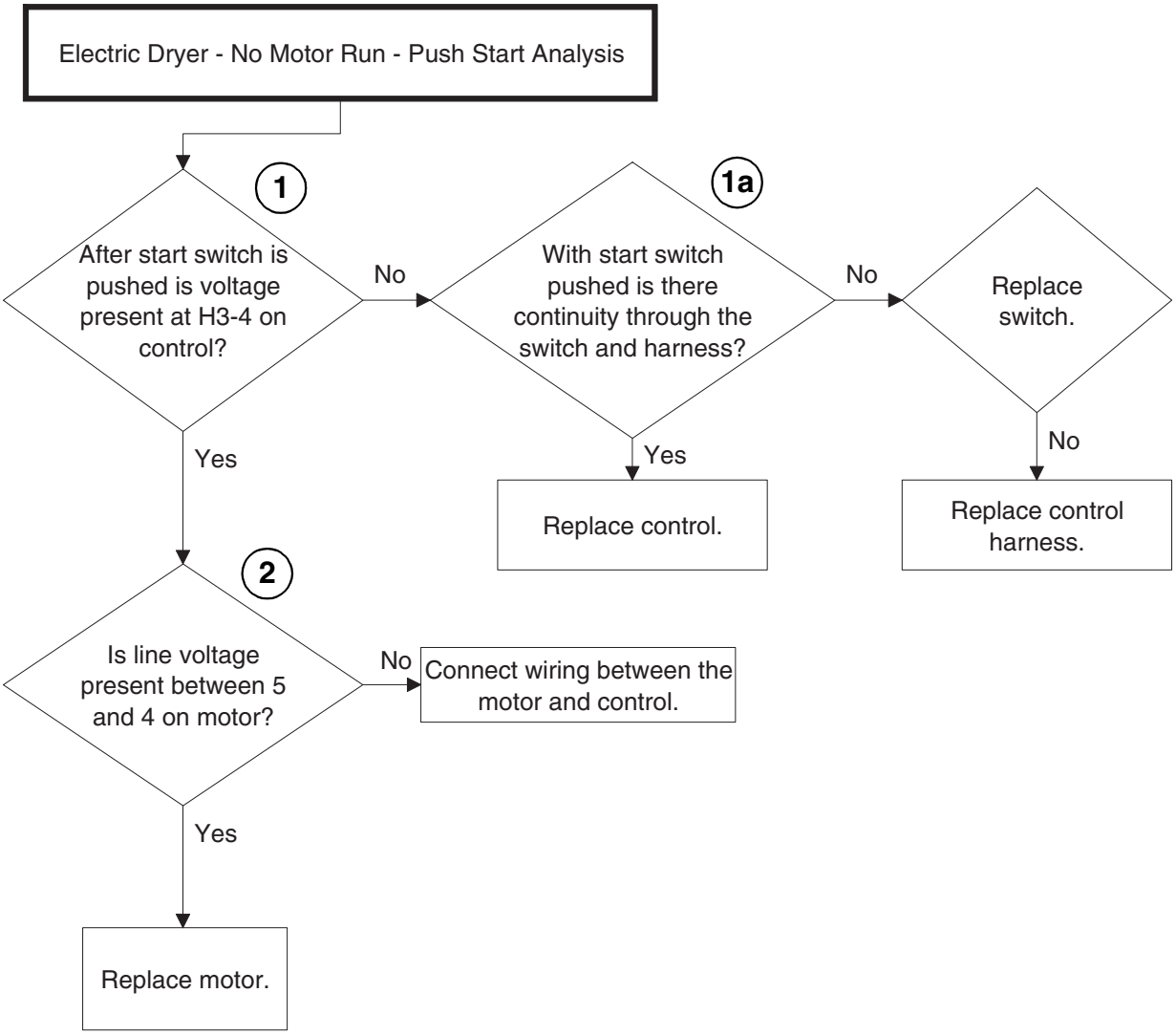
23. Electric Dryer – No Motor Run – Push Start Analysis



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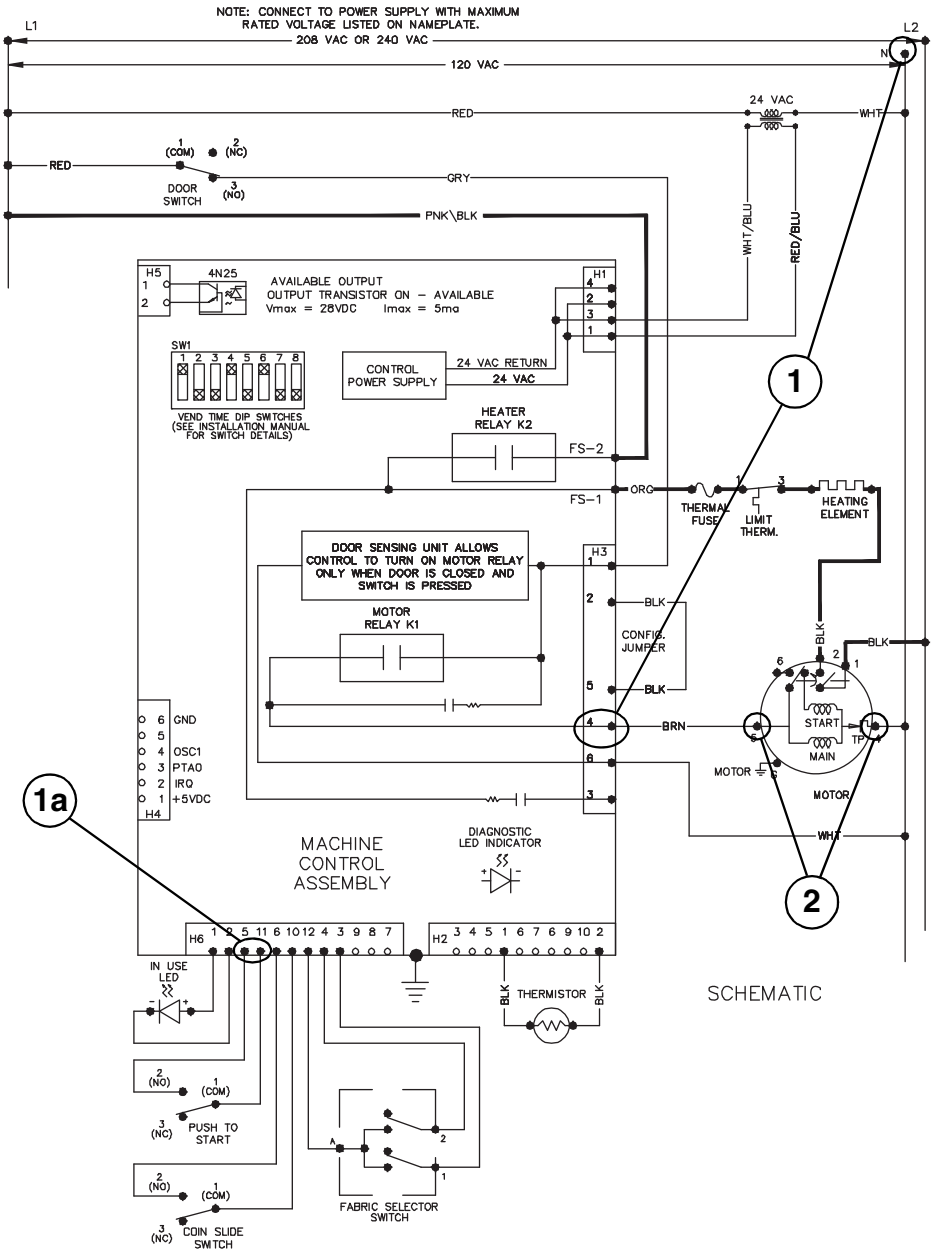
Electric Dryer – No Motor Run – Push Start Analysis



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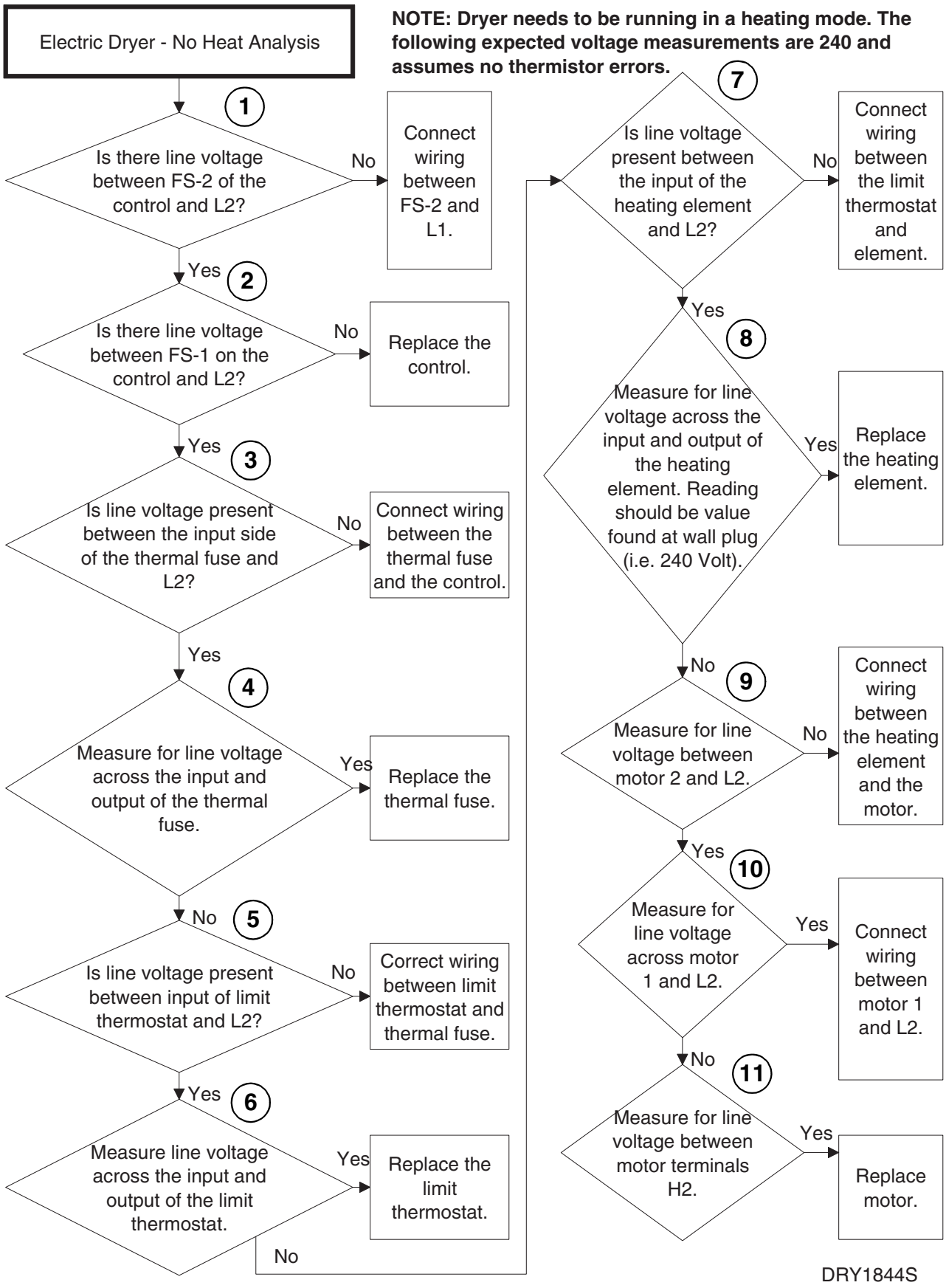
24. Electric Dryer – No Heat Analysis


Electric Dryer - No Heat Analysis
NOTE: Dryer needs to be running in a heating mode. The following expected voltage measurements are 240 and assumes no thermistor errors.
1
Is there line voltage between FS-2 of the control and L2?
No
Connect wiring between FS-2 and L1.
Yes
2
Is there line voltage between FS-1 on the control and L2?
No
Replace the control.
Yes
3
Is line voltage present between the input side of the thermal fuse and L2?
No
Connect wiring between the thermal fuse and the control.
Yes
4
Measure for line voltage across the input and output of the thermal fuse.
Yes
Replace the thermal fuse.
No
5
Is line voltage present between input of limit thermostat and L2?
No
Correct wiring between limit thermostat and thermal fuse.
Yes
6
Measure line voltage across the input and output of the limit thermostat.
Yes
Replace the limit thermostat.
No
7
Is line voltage present between the input of the heating element and L2?
No
Connect wiring between the limit thermostat and element.
Yes
8
Measure for line voltage across the input and output of the heating element. Reading should be value found at wall plug (i.e. 240 Volt).
Yes
Replace the heating element.
No
9
Measure for line voltage between motor 2 and L2.
No
Connect wiring between the heating element and the motor.
Yes
10
Measure for line voltage across motor 1 and L2.
Yes
Connect wiring between motor 1 and L2.
No
11
Measure for line voltage between motor terminals H2.
Yes
Replace motor.
DRY1844S

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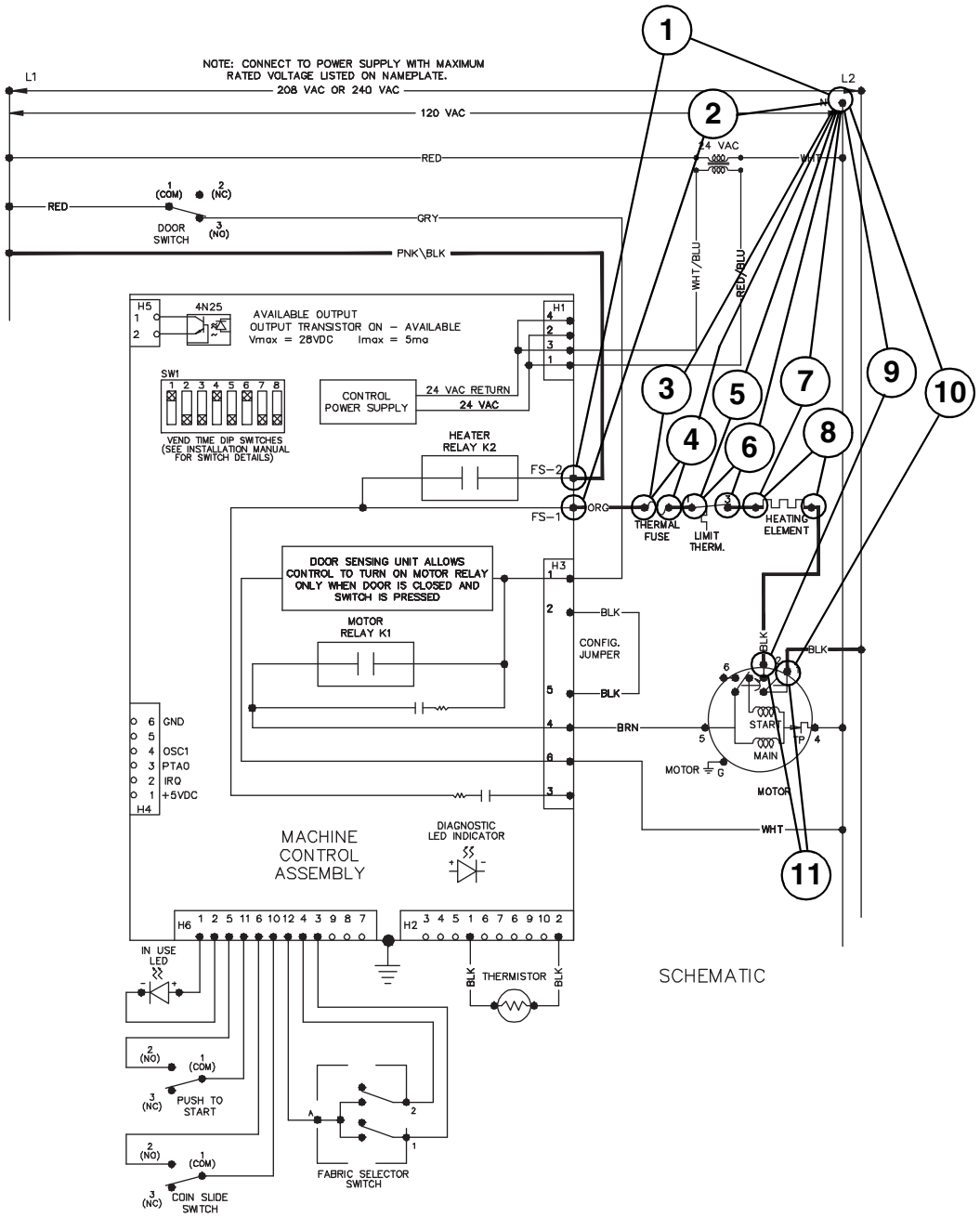
Electric Dryer – No Heat Analysis



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Section 5
Electronic Display Control Troubleshooting

25. Error Code Listing

Listed below are some of the error codes that may appear on the Electronic Control.

"E:00"	General Error	
"E:01"	Proximity Error	Micro-wand IIIe is improperly aimed at Infrared communicator (angle or distance): Reaim Micro-wand IIIe.
"E:02"	IR Communication Disconnection	Micro-wand IIIe prematurely pulled away from Electronic Control during infrared communication: Maintain infrared connection between Micro-wand IIIe and Electronic Control during communication.
"E:05"	Invalid Value Communication	Invalid code downloaded from Micro-wand IIIe to Electronic Control:
"E:07"	Inoperative Control	Replace Electronic Control.
"E:08"	Inoperative Control	Replace Electronic Control.
"E:09"	Proximity Error	Micro-wand IIIe is improperly aimed at Infrared communicator (angle or distance): Reaim Micro-wand IIIe.
"E:0A"	Proximity Error	Micro-wand IIIe is improperly aimed at Infrared communicator (angle or distance): Reaim Micro-wand IIIe.
"E:0B"	IR Communication Disconnection	Micro-wand IIIe prematurely pulled away from Electronic Control during infrared communication: Maintain infrared connection between Micro-wand IIIe and Electronic Control during communication.
"E:0C"	IR Communication Disconnection	Micro-wand IIIe prematurely pulled away from Electronic Control during infrared communication: Maintain infrared connection between Micro-wand IIIe and Electronic Control during communication.
"E:0d"	Pressure Switch Error	1. Check fill and drain hoses for improper installation and kinks. 2. Check fill electrical circuit: Replace inoperative switches or wires.
"E:0F"	IR Communicator Programmed Off	Reprogram infrared communicator on.
"Err"	Coin Error	1. Inoperative coin sensor: Run the Coin Drop Diagnostic test. 2. Coin drop obstruction: Check coin drop area and remove any obstructions. 3. Customer tampering: Evaluate security procedures.
"OP"	Open Thermistor	Physical opening in the thermistor circuit: Change thermistor.
"SH"	Shorted Thermistor	Dead short in the thermistor circuit: Change thermistor.

NOTE: Disconnecting power to the unit may clear the error display.

NOTE: If replacing an inoperative electronic control due to burnt pin(s) on the 6-pin wire harness connector block, it may be due to damaged terminals in the harness connector. Damaged terminals in the harness connector will appear burnt or show signs of heat discoloration on the connetor block. Replace the control to avoid repeated damage.

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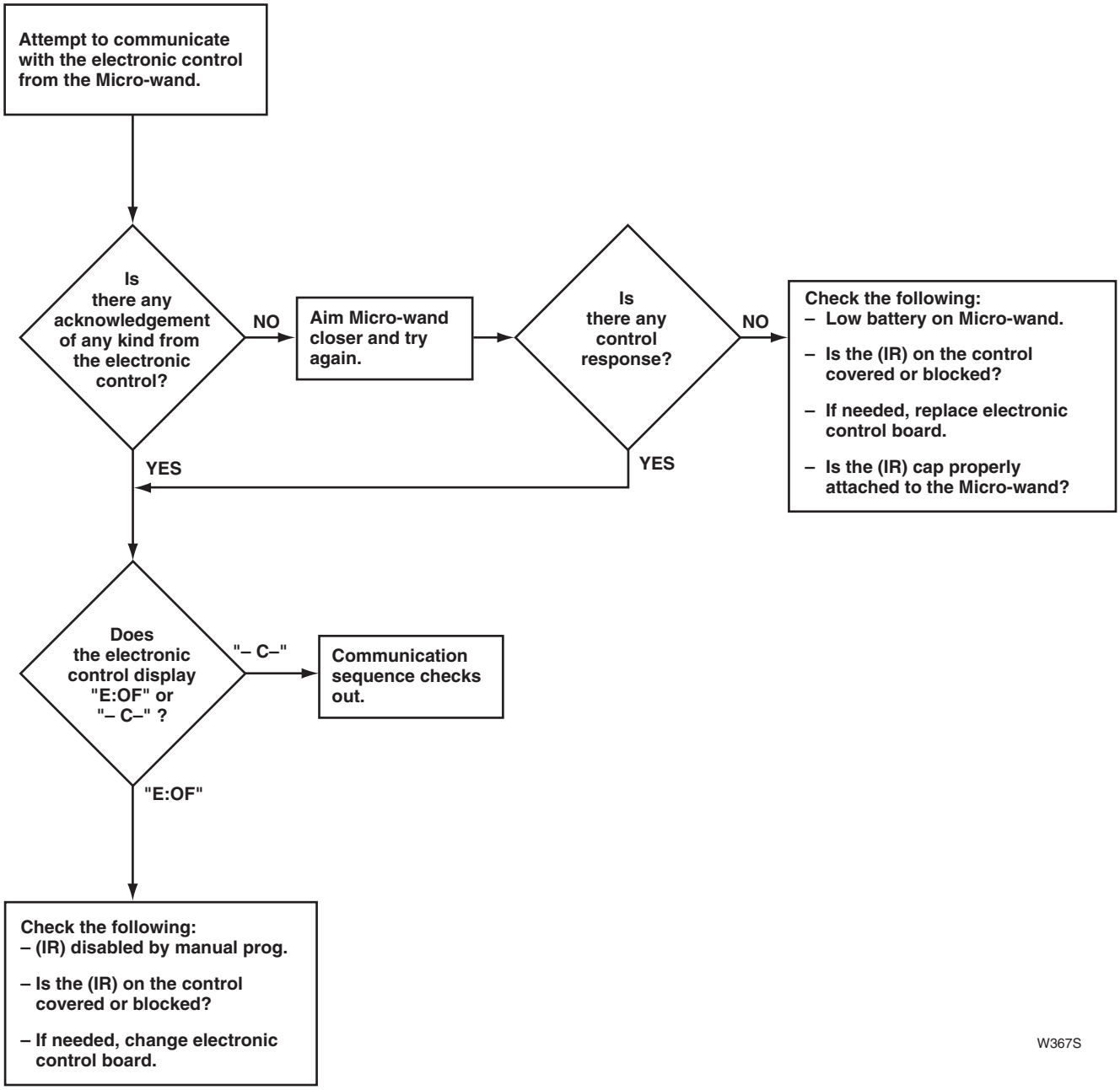
26. Cannot Perform Infrared Communication


Attempt to communicate with the electronic control from the Micro-wand.
Is there any acknowledgement of any kind from the electronic control?
NO
Aim Micro-wand closer and try again.
Is there any control response?
NO
Check the following:
– Low battery on Micro-wand.
– Is the (IR) on the control covered or blocked?
– If needed, replace electronic control board.
– Is the (IR) cap properly attached to the Micro-wand?
YES
YES
Does the electronic control display "E:OF" or "– C–" ?
"– C–"
Communication sequence checks out.
"E:OF"
Check the following:
– (IR) disabled by manual prog.
– Is the (IR) on the control covered or blocked?
– If needed, change electronic control board.
W367S

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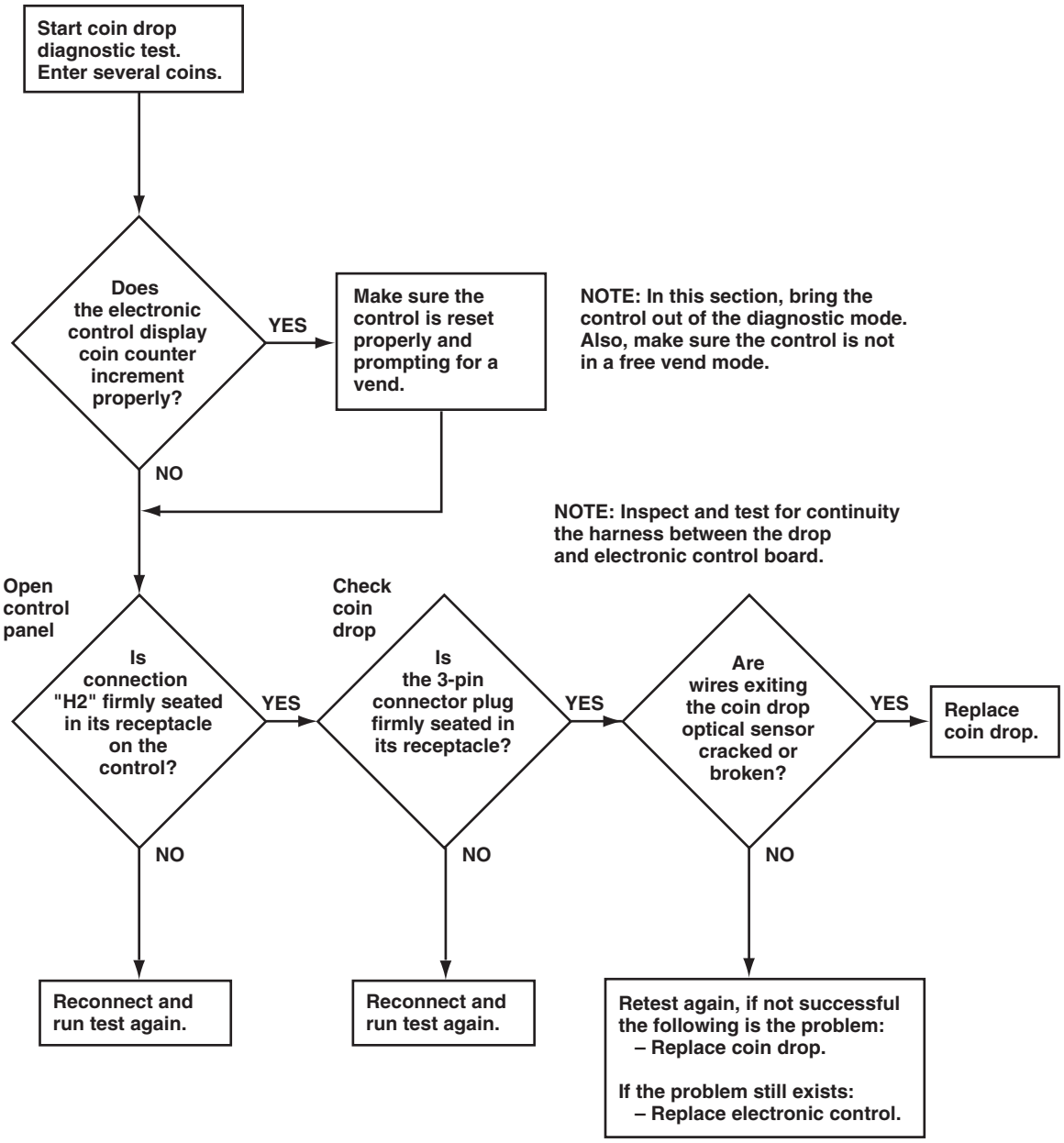
27. Coins Ignored When Entered


Start coin drop diagnostic test. Enter several coins.
Does the electronic control display coin counter increment properly?
YES
Make sure the control is reset properly and prompting for a vend.
NOTE: In this section, bring the control out of the diagnostic mode. Also, make sure the control is not in a free vend mode.
NO
NOTE: Inspect and test for continuity the harness between the drop and electronic control board.
Open control panel
Is connection "H2" firmly seated in its receptacle on the control?
YES
Check coin drop
Is the 3-pin connector plug firmly seated in its receptacle?
YES
Are wires exiting the coin drop optical sensor cracked or broken?
YES
Replace coin drop.
NO
NO
NO
Reconnect and run test again.
Reconnect and run test again.
Retest again, if not successful the following is the problem:
– Replace coin drop.
If the problem still exists:
– Replace electronic control.

W368S

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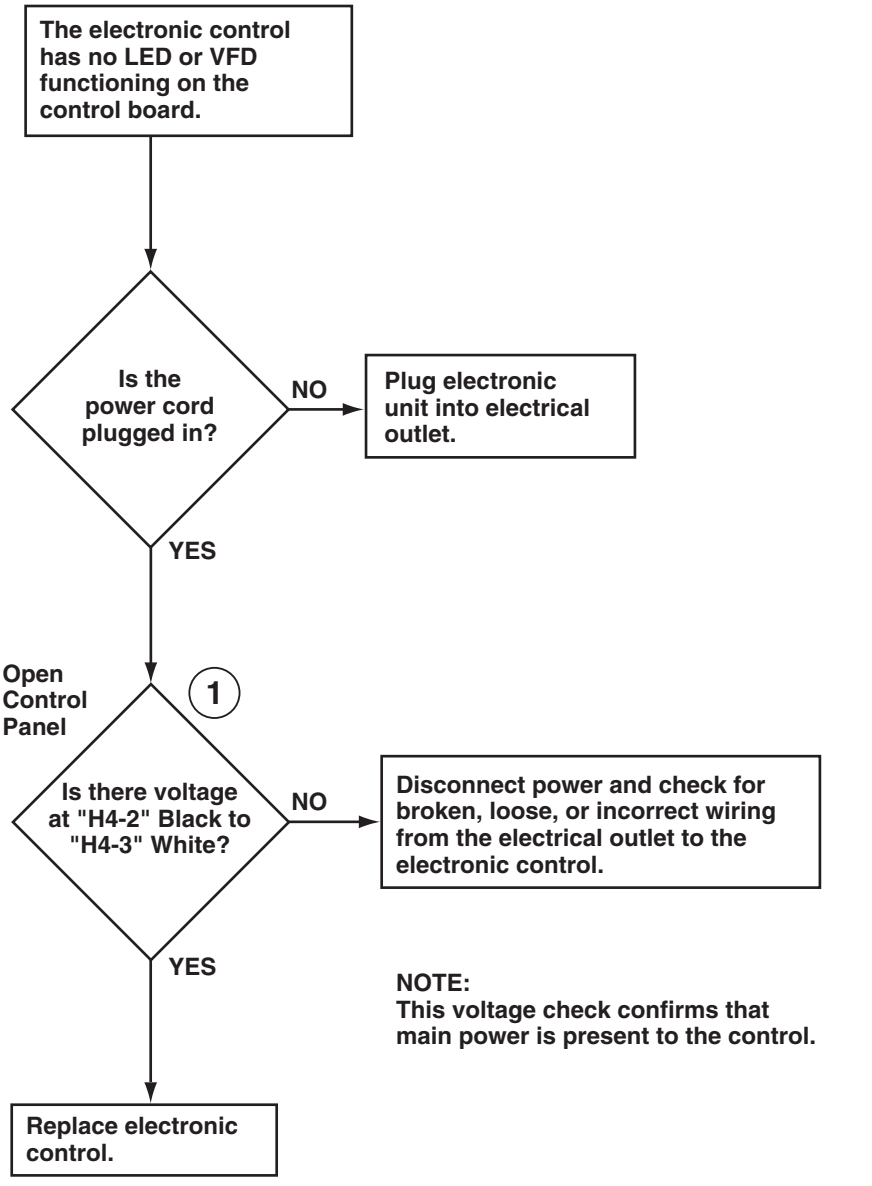
28. Electronic Control Has No Visible Display


The electronic control has no LED or VFD functioning on the control board.
Is the power cord plugged in?
NO
Plug electronic unit into electrical outlet.
YES
Open Control Panel
1
Is there voltage at "H4-2" Black to "H4-3" White?
NO
Disconnect power and check for broken, loose, or incorrect wiring from the electrical outlet to the electronic control.
YES
NOTE:
This voltage check confirms that main power is present to the control.
Replace electronic control.
D203S

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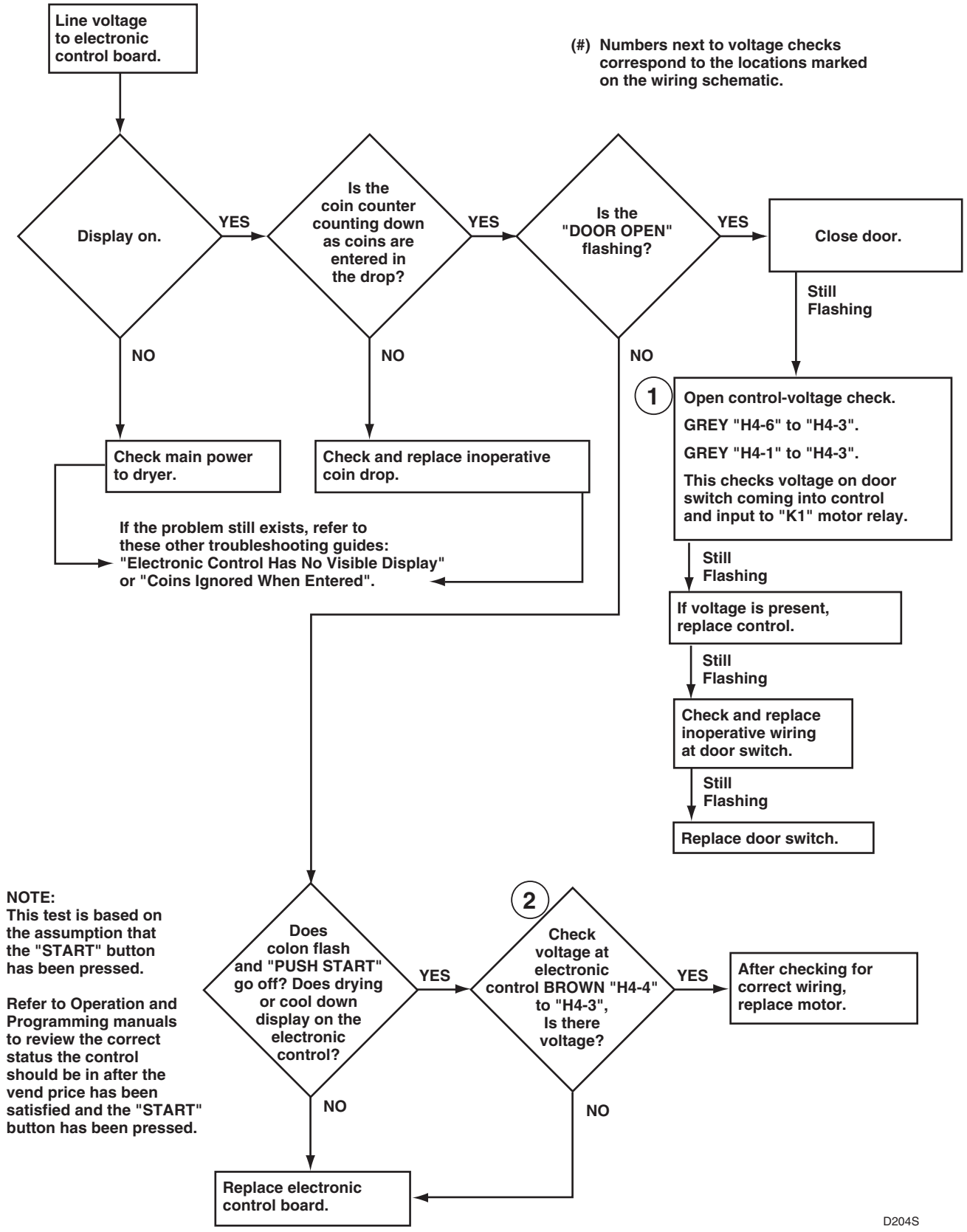
29. No Motor Run – Door Open" Analysis – Gas Dryer


Line voltage to electronic control board.
(#) Numbers next to voltage checks correspond to the locations marked on the wiring schematic.
Display on.
YES
Is the coin counter counting down as coins are entered in the drop?
YES
Is the "DOOR OPEN" flashing?
YES
Close door.
Still Flashing
NO
NO
NO
Check main power to dryer.
Check and replace inoperative coin drop.
If the problem still exists, refer to these other troubleshooting guides: "Electronic Control Has No Visible Display" or "Coins Ignored When Entered".
1
Open control-voltage check.
GREY "H4-6" to "H4-3".
GREY "H4-1" to "H4-3".
This checks voltage on door switch coming into control and input to "K1" motor relay.
Still Flashing
If voltage is present, replace control.
Still Flashing
Check and replace inoperative wiring at door switch.
Still Flashing
Replace door switch.
NOTE:
This test is based on the assumption that the "START" button has been pressed.
Refer to Operation and Programming manuals to review the correct status the control should be in after the vend price has been satisfied and the "START" button has been pressed.
Does colon flash and "PUSH START" go off? Does drying or cool down display on the electronic control?
YES
2
Check voltage at electronic control BROWN "H4-4" to "H4-3", Is there voltage?
YES
After checking for correct wiring, replace motor.
NO
NO
Replace electronic control board.
D204S

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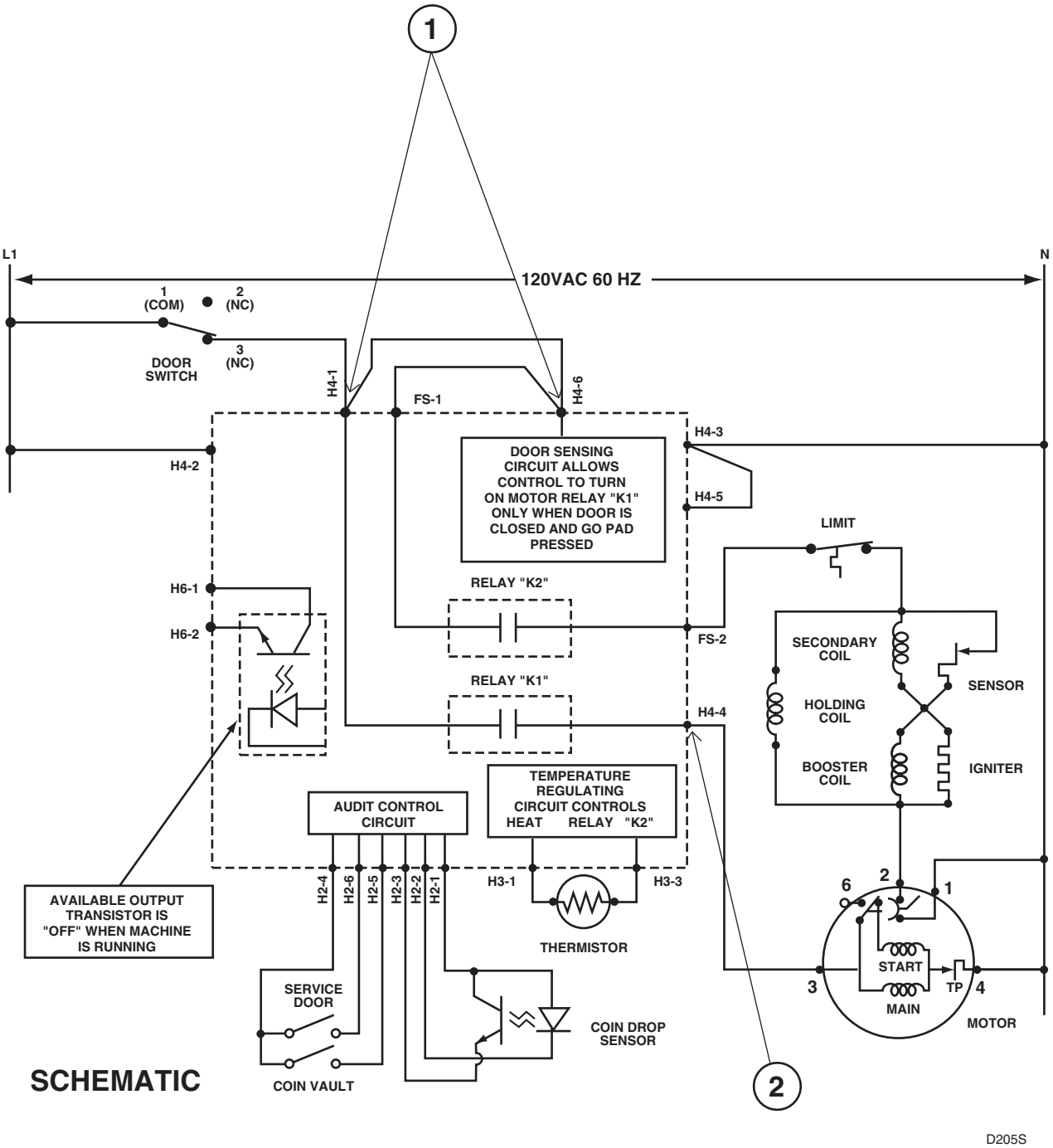
No Motor Run – "Door Open" Analysis – Gas Dryer



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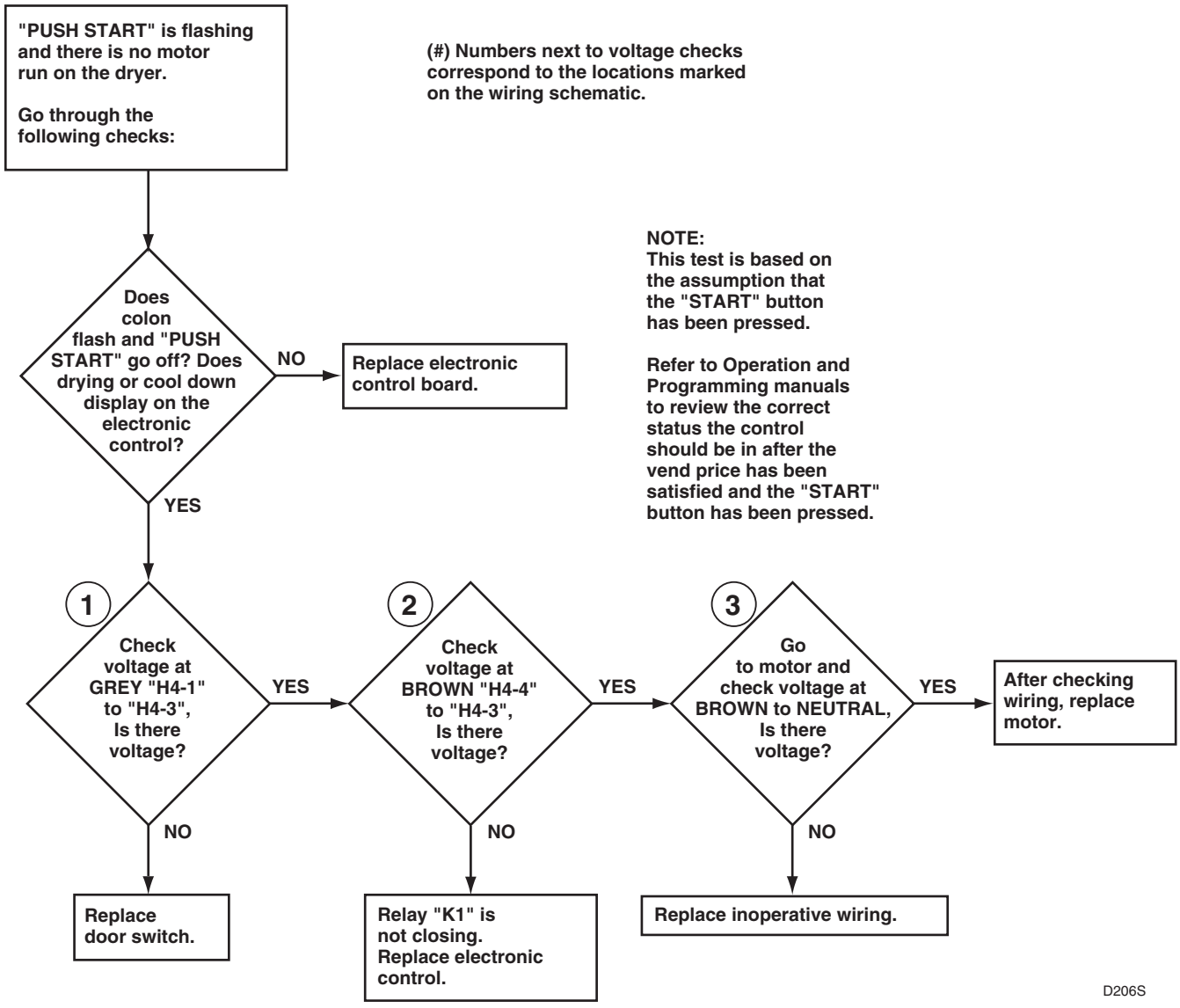
30. No Motor Run – “Push Start” Analysis – Gas Dryer


"PUSH START" is flashing and there is no motor run on the dryer.
Go through the following checks:
(#) Numbers next to voltage checks correspond to the locations marked on the wiring schematic.
Does colon flash and "PUSH START" go off? Does drying or cool down display on the electronic control?
NO
Replace electronic control board.
YES
NOTE:
This test is based on the assumption that the "START" button has been pressed.
Refer to Operation and Programming manuals to review the correct status the control should be in after the vend price has been satisfied and the "START" button has been pressed.
1
Check voltage at GREY "H4-1" to "H4-3", Is there voltage?
YES
2
Check voltage at BROWN "H4-4" to "H4-3", Is there voltage?
YES
3
Go to motor and check voltage at BROWN to NEUTRAL, Is there voltage?
YES
After checking wiring, replace motor.
NO
Replace door switch.
NO
Relay "K1" is not closing. Replace electronic control.
NO
Replace inoperative wiring.
D206S

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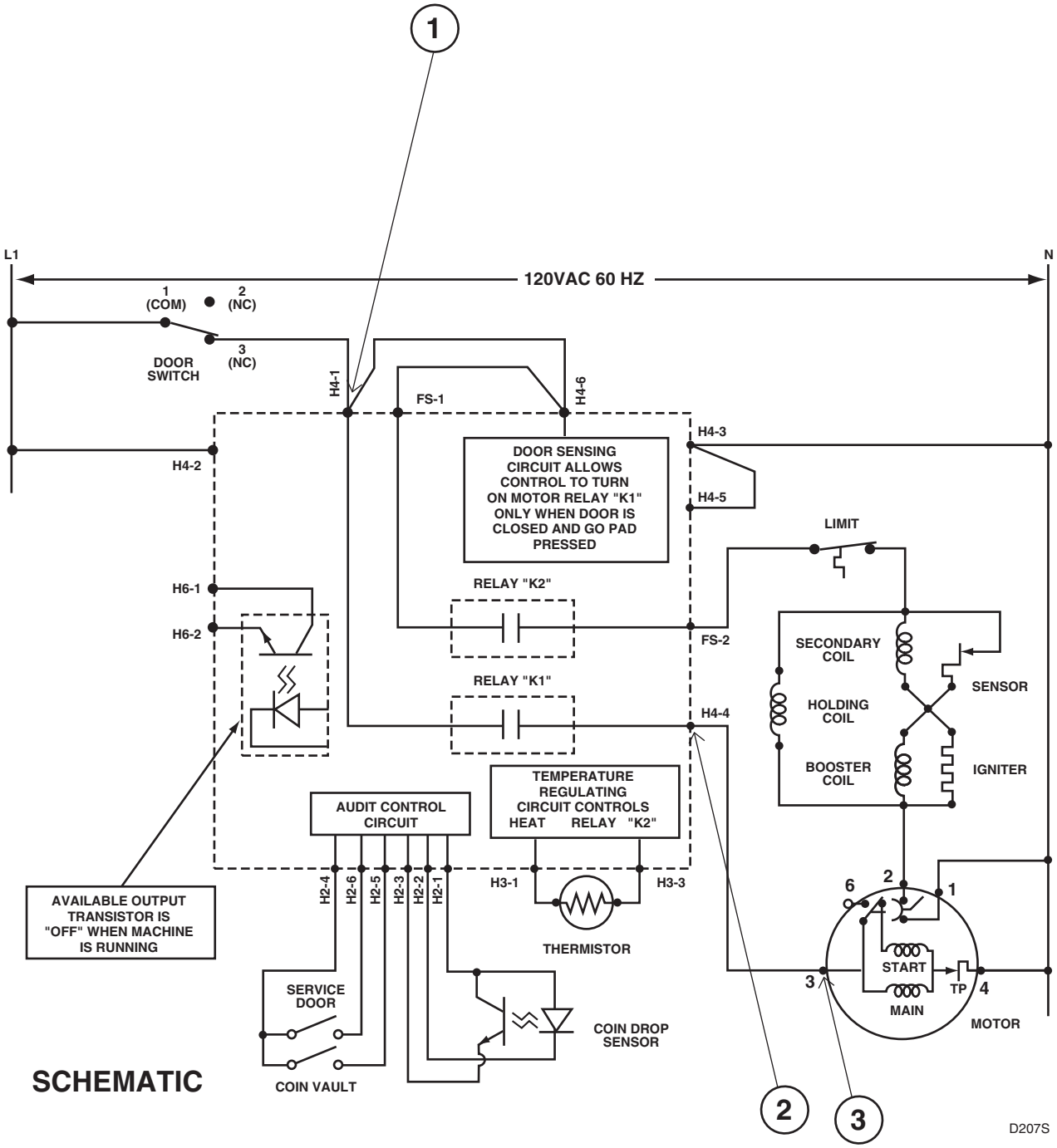
No Motor Run – "Push Start" Analysis – Gas Dryer



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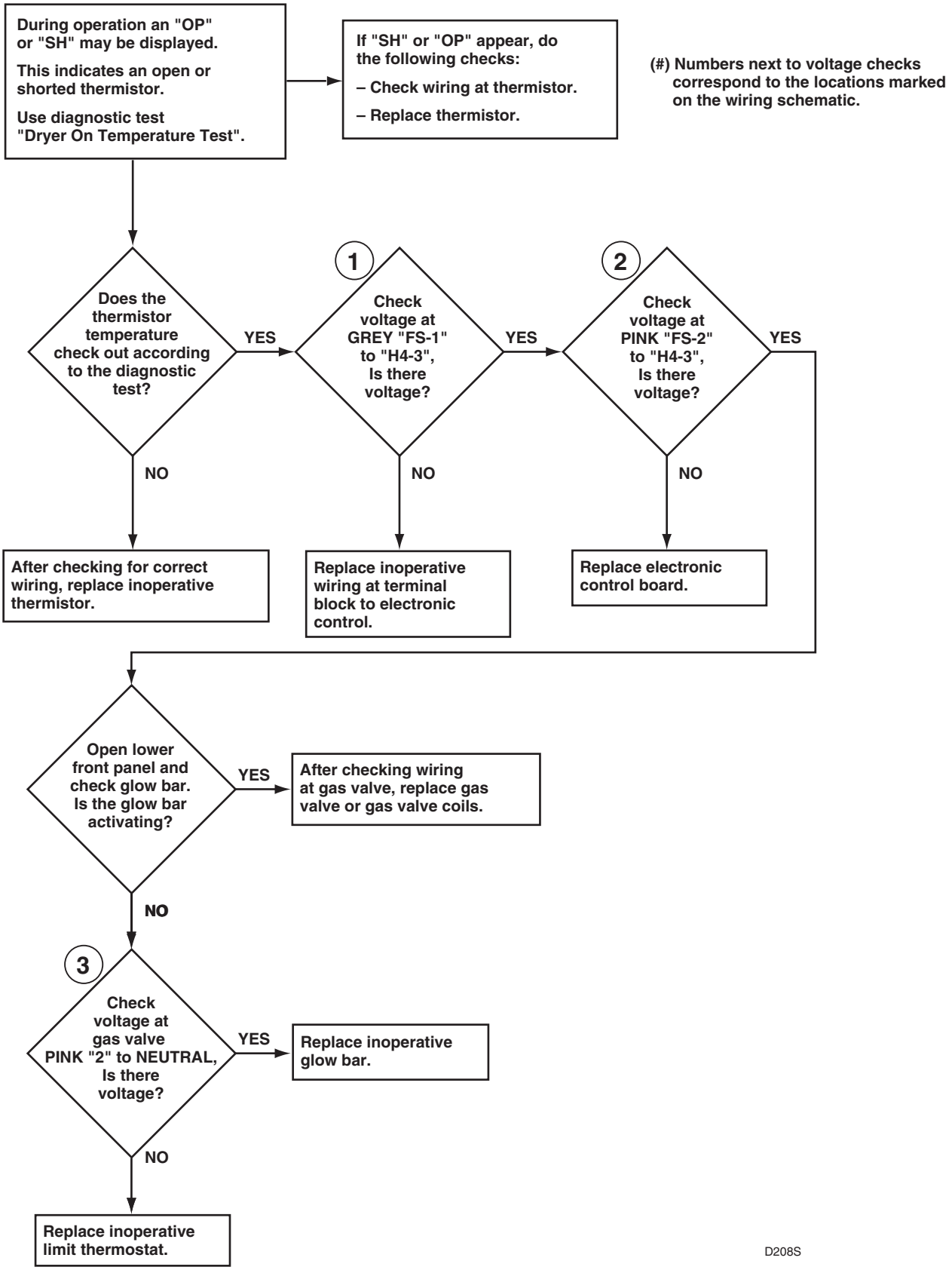
31. No Heat Analysis – Gas Dryer


During operation an "OP" or "SH" may be displayed.
This indicates an open or shorted thermistor.
Use diagnostic test "Dryer On Temperature Test".
If "SH" or "OP" appear, do the following checks:
– Check wiring at thermistor.
– Replace thermistor.
(#) Numbers next to voltage checks correspond to the locations marked on the wiring schematic.
Does the thermistor temperature check out according to the diagnostic test?
YES
1
Check voltage at GREY "FS-1" to "H4-3", Is there voltage?
YES
2
Check voltage at PINK "FS-2" to "H4-3", Is there voltage?
YES
NO
NO
NO
After checking for correct wiring, replace inoperative thermistor.
Replace inoperative wiring at terminal block to electronic control.
Replace electronic control board.
Open lower front panel and check glow bar. Is the glow bar activating?
YES
After checking wiring at gas valve, replace gas valve or gas valve coils.
NO
3
Check voltage at gas valve PINK "2" to NEUTRAL, Is there voltage?
YES
Replace inoperative glow bar.
NO
Replace inoperative limit thermostat.
D208S

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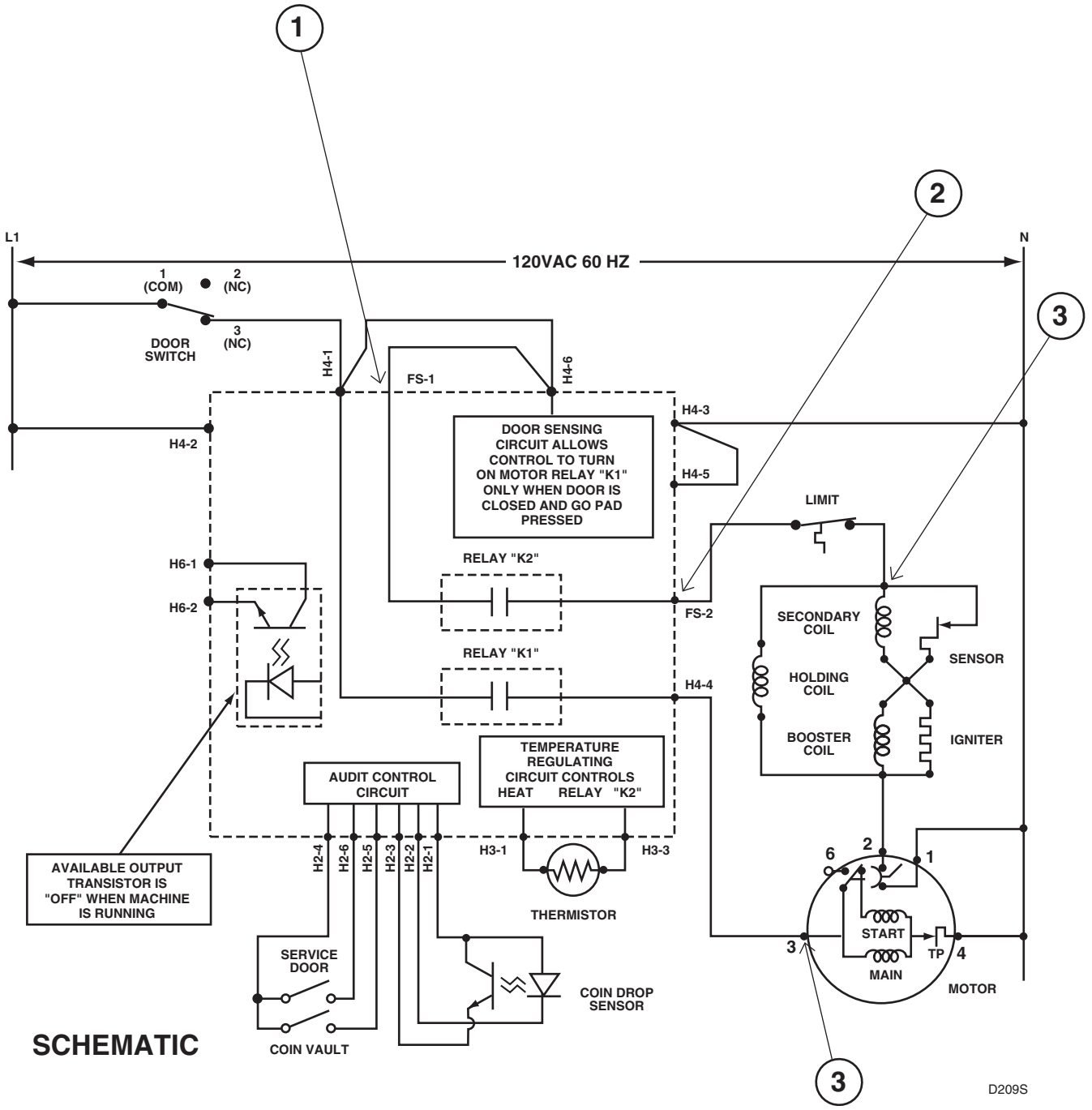
No Heat Analysis – Gas Dryer



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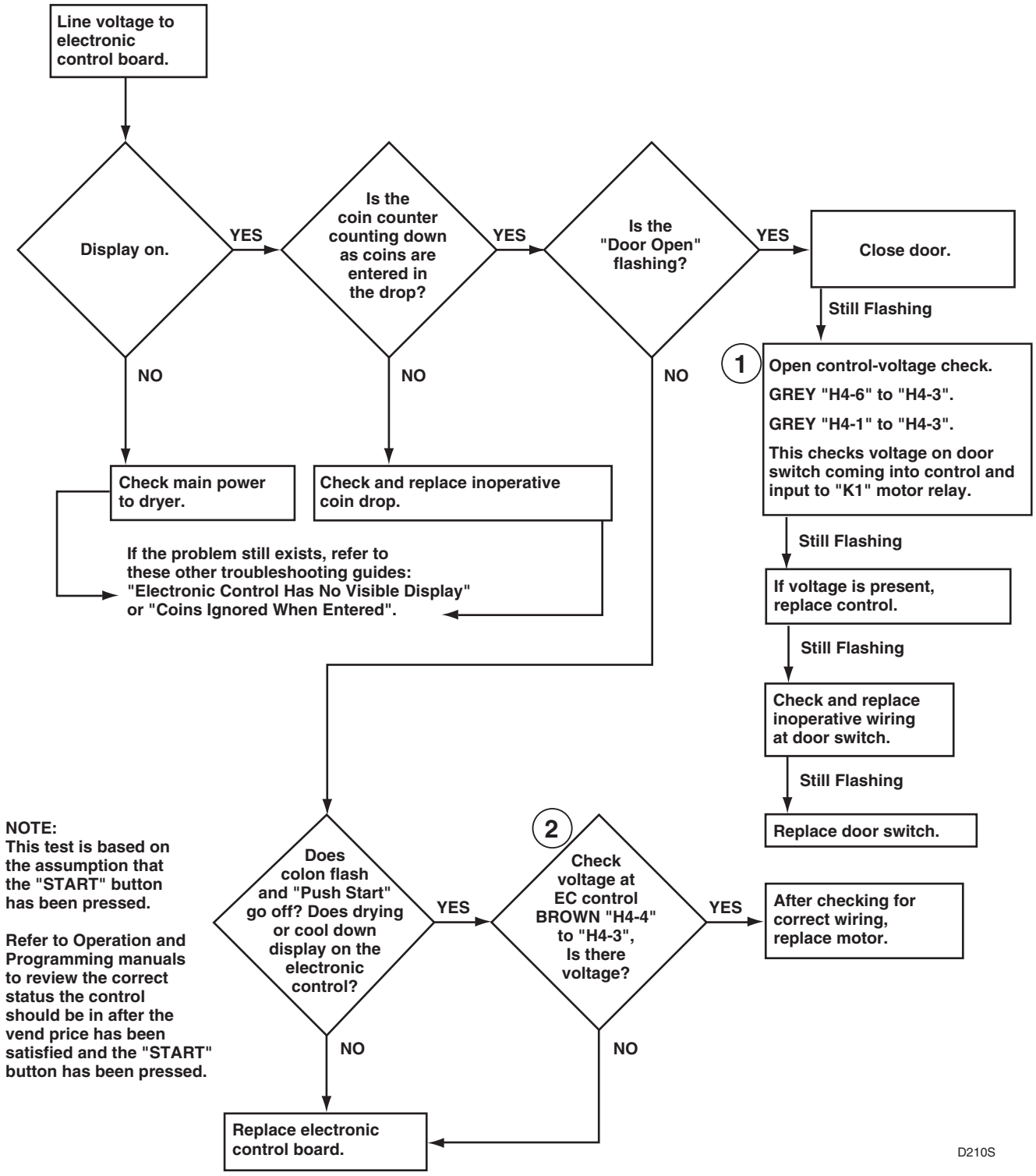
32. No Motor Run – “Door Open” Analysis – Electric Dryer


Line voltage to electronic control board.
Display on.
YES
Is the coin counter counting down as coins are entered in the drop?
YES
Is the "Door Open" flashing?
YES
Close door.
Still Flashing
1
Open control-voltage check.
GREY "H4-6" to "H4-3".
GREY "H4-1" to "H4-3".
This checks voltage on door switch coming into control and input to "K1" motor relay.
Still Flashing
If voltage is present, replace control.
Still Flashing
Check and replace inoperative wiring at door switch.
Still Flashing
Replace door switch.
NO
NO
NO
Check main power to dryer.
Check and replace inoperative coin drop.
If the problem still exists, refer to these other troubleshooting guides: "Electronic Control Has No Visible Display" or "Coins Ignored When Entered".
NOTE:
This test is based on the assumption that the "START" button has been pressed.
Refer to Operation and Programming manuals to review the correct status the control should be in after the vend price has been satisfied and the "START" button has been pressed.
Does colon flash and "Push Start" go off? Does drying or cool down display on the electronic control?
YES
2
Check voltage at EC control BROWN "H4-4" to "H4-3", Is there voltage?
YES
After checking for correct wiring, replace motor.
NO
NO
Replace electronic control board.
D210S

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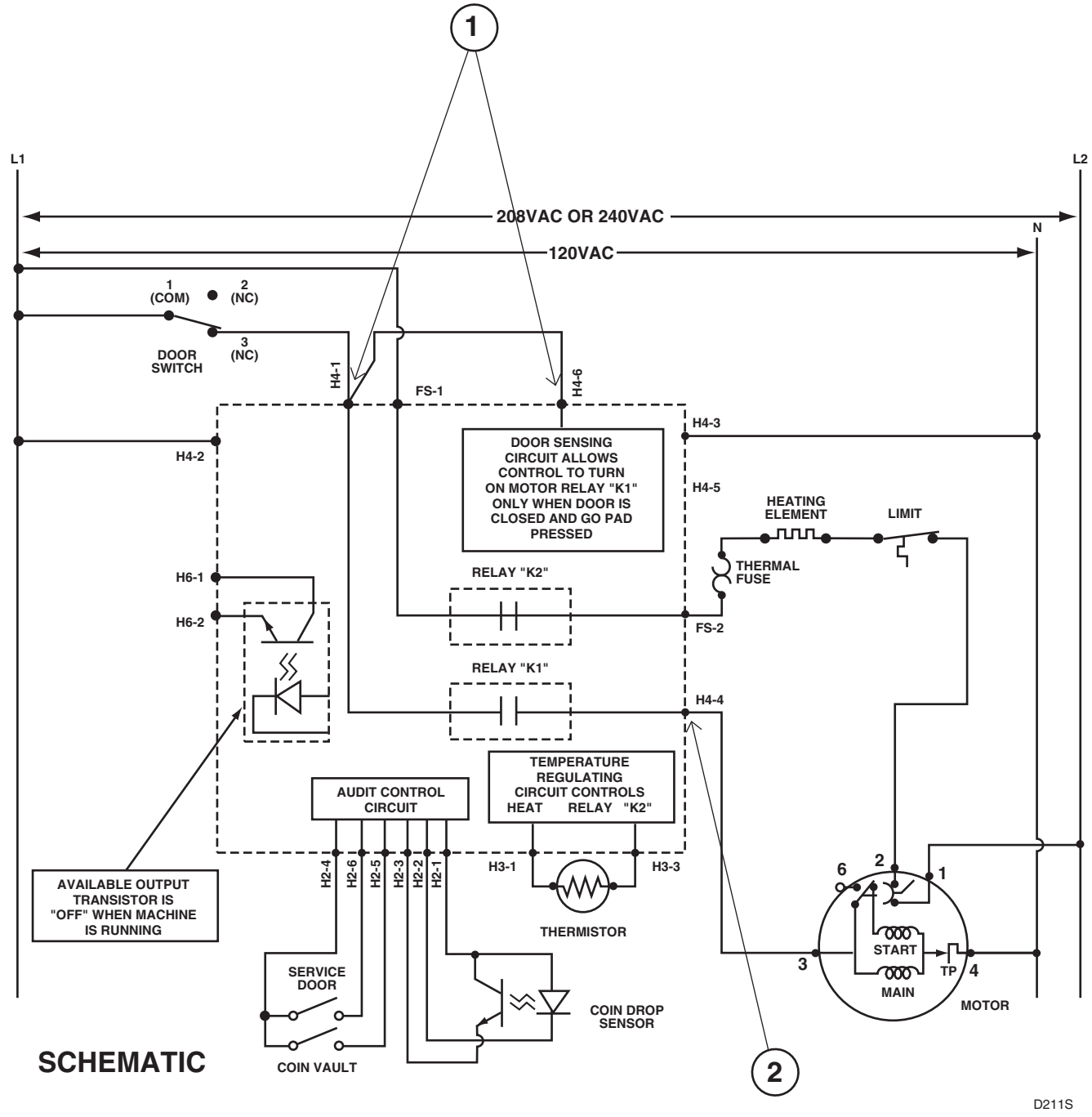
No Motor Run – "Door Open" Analysis – Electric Dryer



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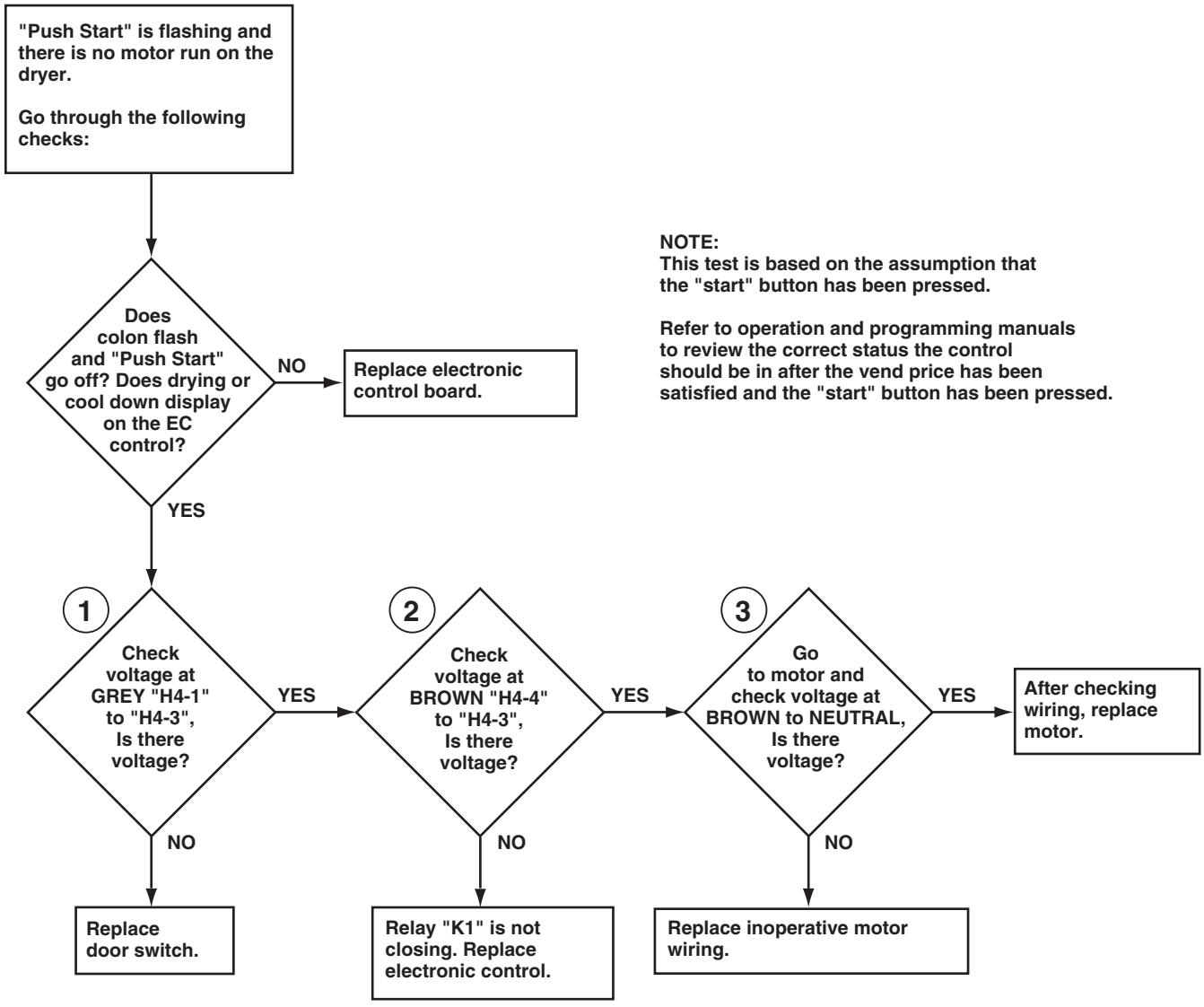
33. No Motor Run – “Push Start” Analysis – Electric Dryer


"Push Start" is flashing and there is no motor run on the dryer.
Go through the following checks:
Does colon flash and "Push Start" go off? Does drying or cool down display on the EC control?
NO
Replace electronic control board.
YES
NOTE:
This test is based on the assumption that the "start" button has been pressed.
Refer to operation and programming manuals to review the correct status the control should be in after the vend price has been satisfied and the "start" button has been pressed.
1
Check voltage at GREY "H4-1" to "H4-3", Is there voltage?
YES
2
Check voltage at BROWN "H4-4" to "H4-3", Is there voltage?
YES
3
Go to motor and check voltage at BROWN to NEUTRAL, Is there voltage?
YES
After checking wiring, replace motor.
NO
Replace door switch.
NO
Relay "K1" is not closing. Replace electronic control.
NO
Replace inoperative motor wiring.
D212S

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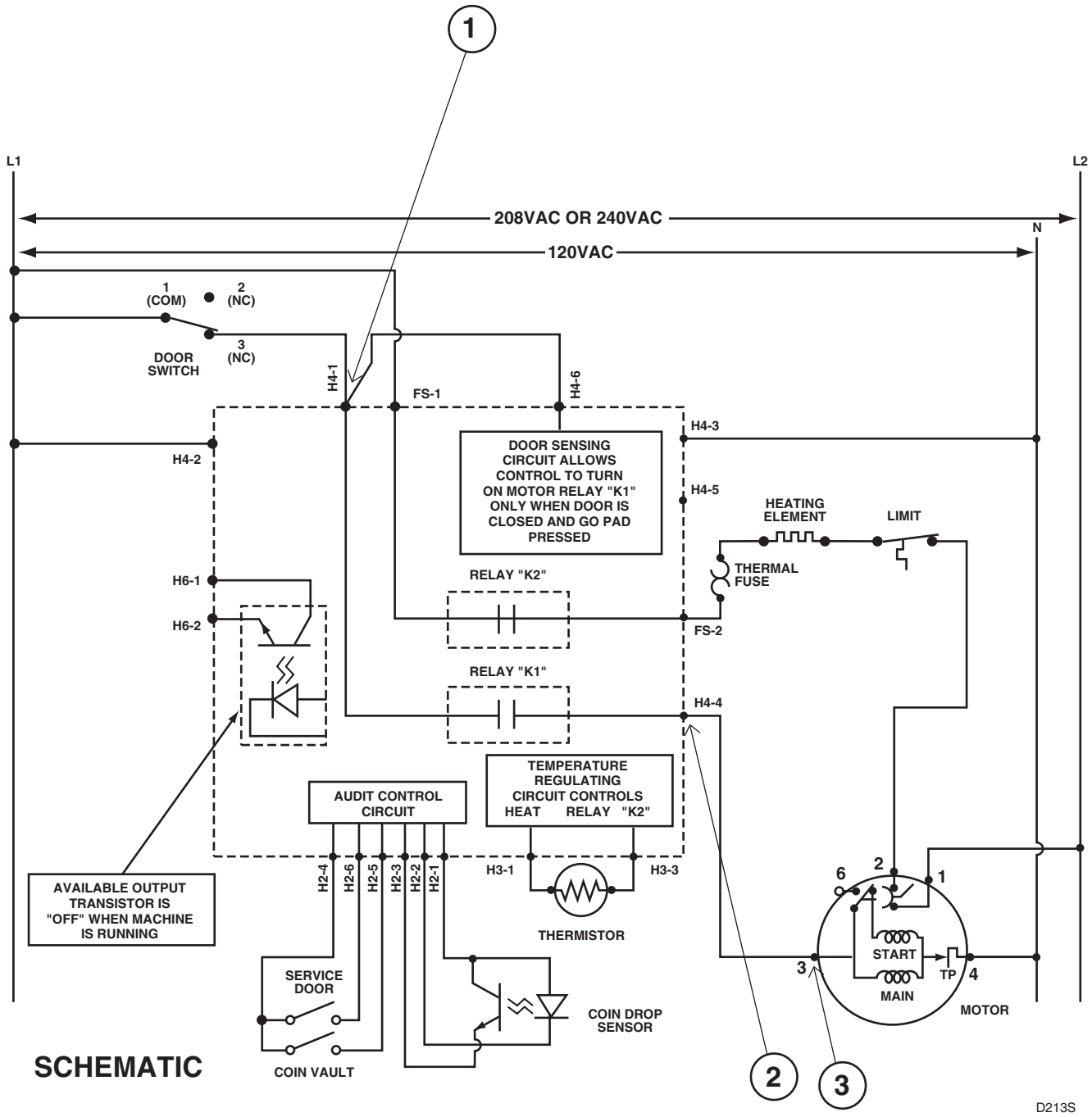
No Motor Run – “Push Start” Analysis – Electric Dryer



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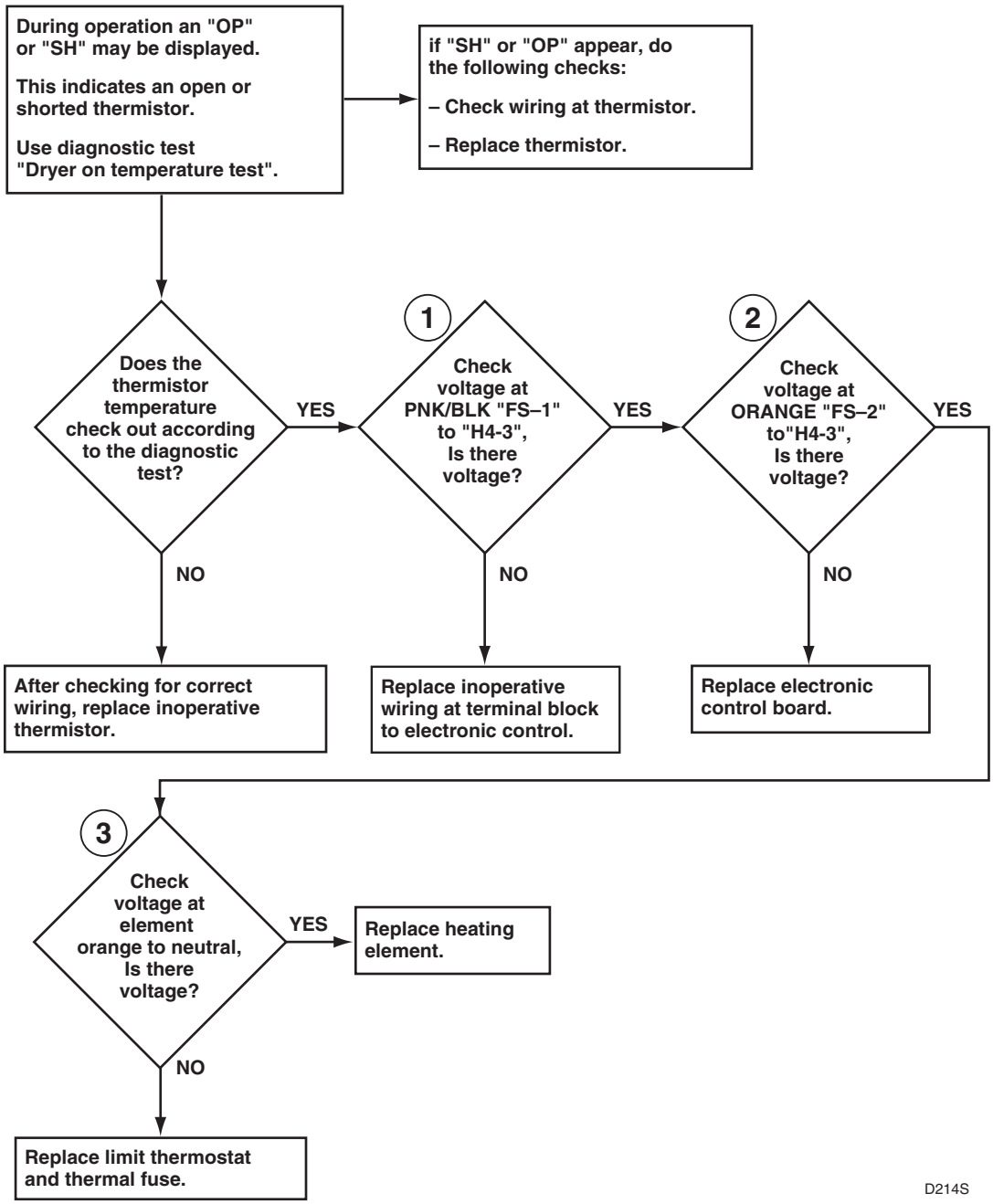
34. No Heat Analysis – Electric Dryer


During operation an "OP" or "SH" may be displayed.
This indicates an open or shorted thermistor.
Use diagnostic test "Dryer on temperature test".
if "SH" or "OP" appear, do the following checks:
– Check wiring at thermistor.
– Replace thermistor.
Does the thermistor temperature check out according to the diagnostic test?
YES
NO
1
Check voltage at PNK/BLK "FS–1" to "H4-3", Is there voltage?
YES
NO
2
Check voltage at ORANGE "FS–2" to"H4-3", Is there voltage?
YES
NO
After checking for correct wiring, replace inoperative thermistor.
Replace inoperative wiring at terminal block to electronic control.
Replace electronic control board.
3
Check voltage at element orange to neutral, Is there voltage?
YES
NO
Replace heating element.
Replace limit thermostat and thermal fuse.
D214S

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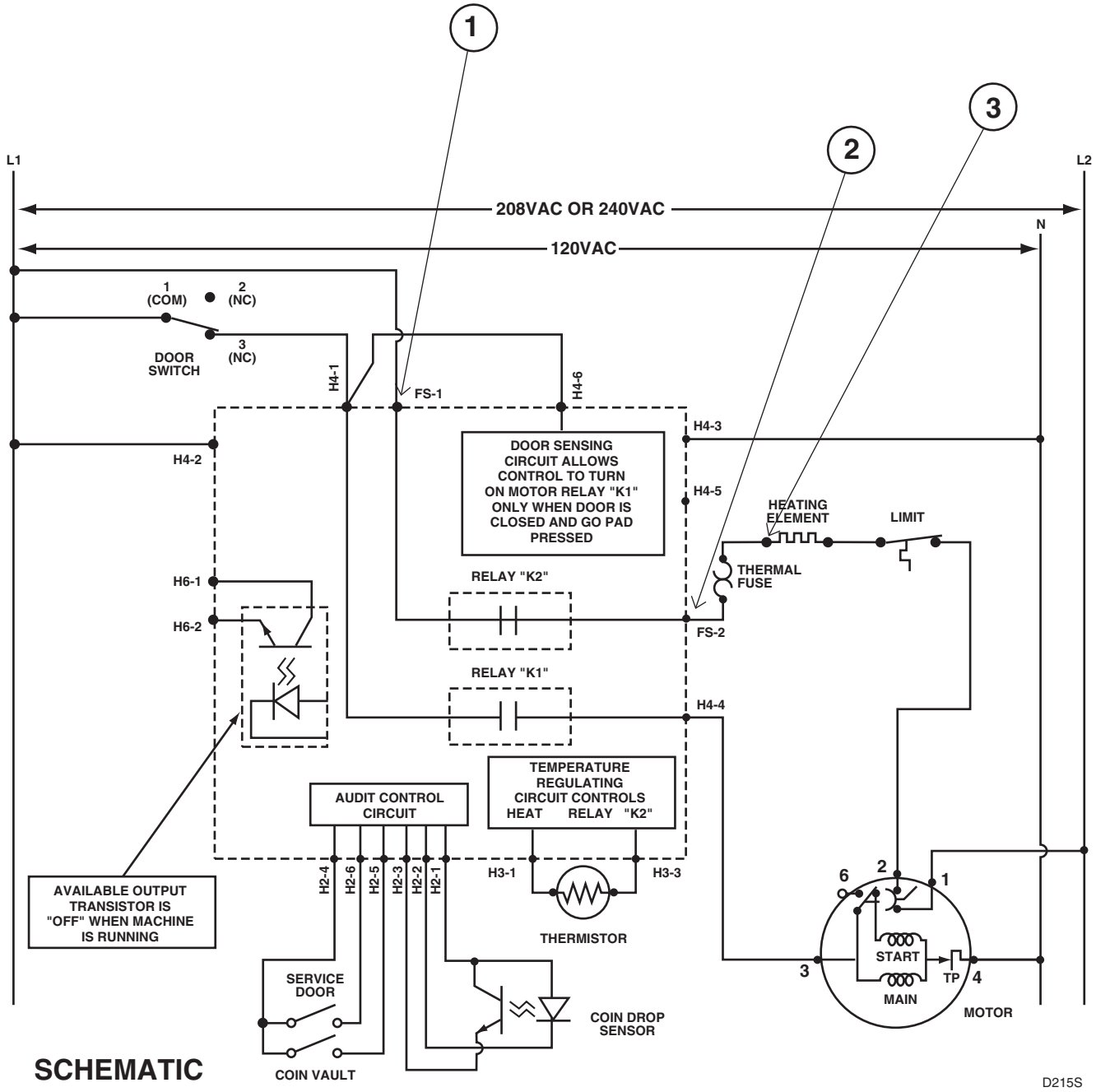
No Heat Analysis – Electric Dryer



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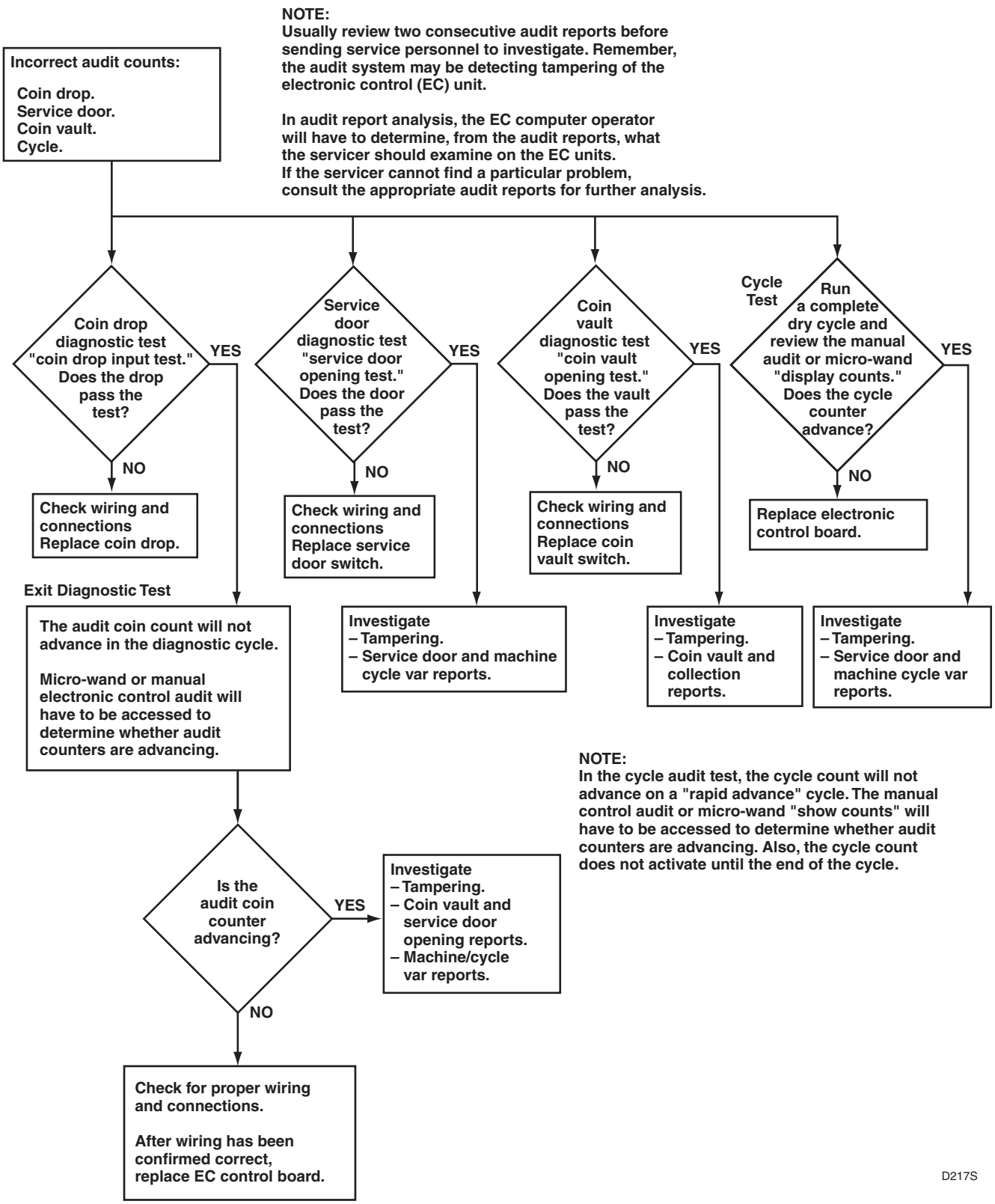
35. Audit Switch Function Analysis


NOTE:
Usually review two consecutive audit reports before sending service personnel to investigate. Remember, the audit system may be detecting tampering of the electronic control (EC) unit.
In audit report analysis, the EC computer operator will have to determine, from the audit reports, what the servicer should examine on the EC units. If the servicer cannot find a particular problem, consult the appropriate audit reports for further analysis.
Incorrect audit counts:
Coin drop.
Service door.
Coin vault.
Cycle.
Coin drop diagnostic test "coin drop input test." Does the drop pass the test?
YES
NO
Check wiring and connections Replace coin drop.
Service door diagnostic test "service door opening test." Does the door pass the test?
YES
NO
Check wiring and connections Replace service door switch.
Coin vault diagnostic test "coin vault opening test." Does the vault pass the test?
YES
NO
Check wiring and connections Replace coin vault switch.
Cycle Test
Run a complete dry cycle and review the manual audit or micro-wand "display counts." Does the cycle counter advance?
YES
NO
Replace electronic control board.
Exit Diagnostic Test
The audit coin count will not advance in the diagnostic cycle.
Micro-wand or manual electronic control audit will have to be accessed to determine whether audit counters are advancing.
Investigate
– Tampering.
– Service door and machine cycle var reports.
Investigate
– Tampering.
– Coin vault and collection reports.
Investigate
– Tampering.
– Service door and machine cycle var reports.
NOTE:
In the cycle audit test, the cycle count will not advance on a "rapid advance" cycle. The manual control audit or micro-wand "show counts" will have to be accessed to determine whether audit counters are advancing. Also, the cycle count does not activate until the end of the cycle.
Is the audit coin counter advancing?
YES
Investigate
– Tampering.
– Coin vault and service door opening reports.
– Machine/cycle var reports.
NO
Check for proper wiring and connections.
After wiring has been confirmed correct, replace EC control board.
D217S

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Section 6
MDC Control Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

IMPORTANT: Refer to wiring diagram for aid in testing dryer components.

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36. Error Code Listing

OP	Open Thermistor Error.	This error code indicates a physical “open” in the thermistor circuit. Possible causes are: 1) thermistor, 2) wiring between control and thermistor, or 3) control.
SH	Shorted Thermistor Error	This error code indicates a “short” in the thermistor circuit. Possible causes are: 1) Shorted thermistor, 2) a short in the wiring between control and thermistor, or 3) control.
EC:19 (Card Reader Machines)	No Card Reader Communication	This error code indicates there is no card reader communication. The control and the reader cannot communicate. Check reader, control and harness. **NOTE: For all other Card Reader errors, consult the Card Reader manufacturer.**

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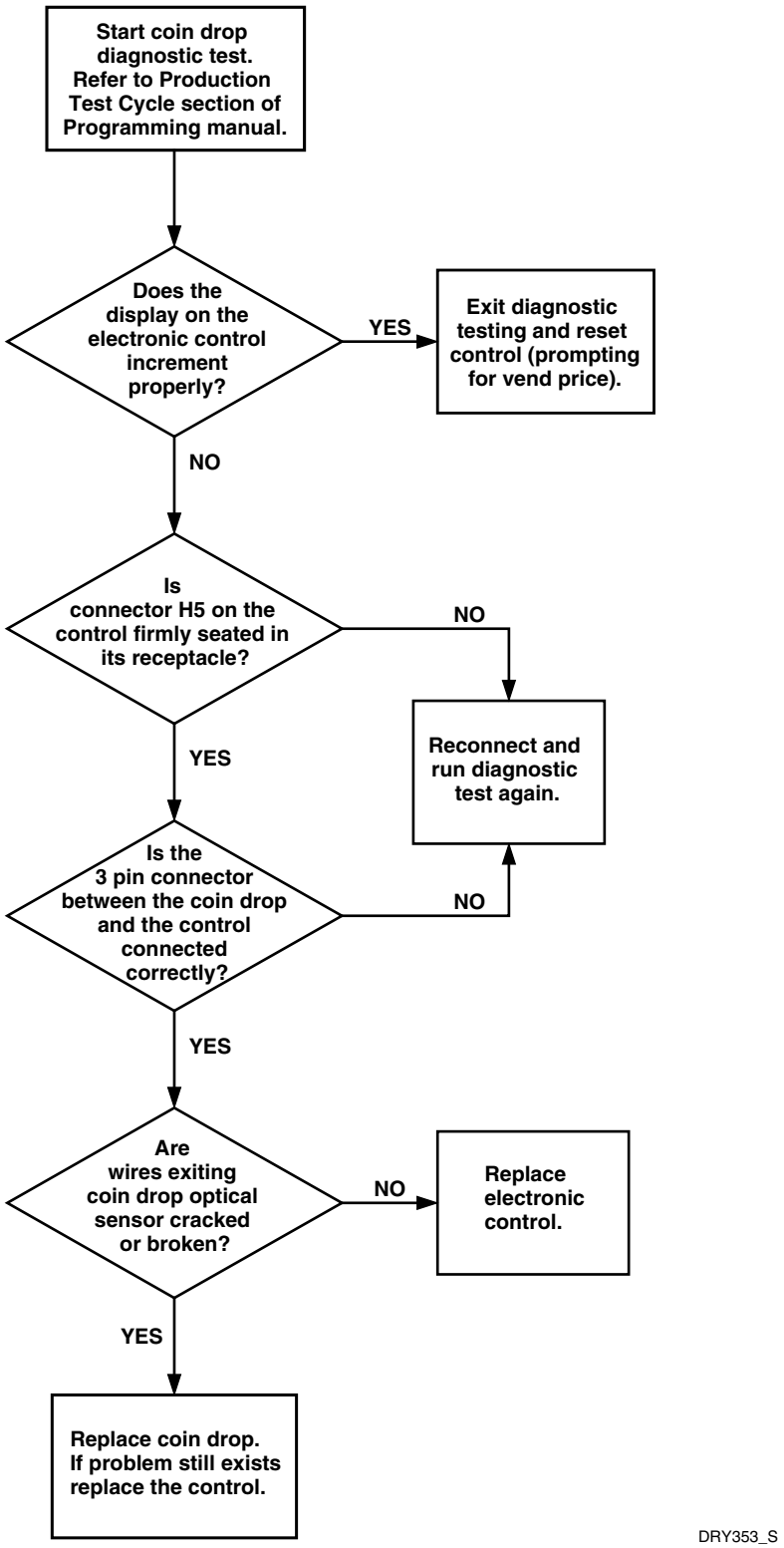
37. Coins Ignored When Entered


Start coin drop diagnostic test. Refer to Production Test Cycle section of Programming manual.
Does the display on the electronic control increment properly?
YES
Exit diagnostic testing and reset control (prompting for vend price).
NO
Is connector H5 on the control firmly seated in its receptacle?
NO
Reconnect and run diagnostic test again.
YES
Is the 3 pin connector between the coin drop and the control connected correctly?
NO
YES
Are wires exiting coin drop optical sensor cracked or broken?
NO
Replace electronic control.
YES
Replace coin drop. If problem still exists replace the control.
DRY353_S

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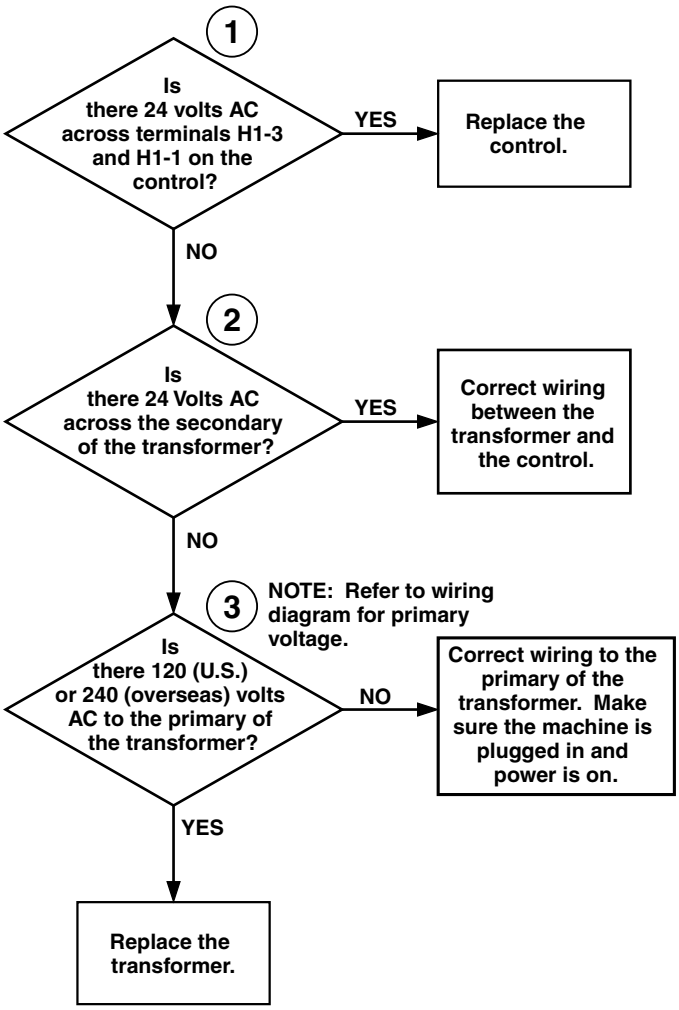
38. No Visible Display on Control


1
Is there 24 volts AC across terminals H1-3 and H1-1 on the control?
YES
Replace the control.
NO
2
Is there 24 Volts AC across the secondary of the transformer?
YES
Correct wiring between the transformer and the control.
NO
3
NOTE: Refer to wiring diagram for primary voltage.
Is there 120 (U.S.) or 240 (overseas) volts AC to the primary of the transformer?
NO
Correct wiring to the primary of the transformer. Make sure the machine is plugged in and power is on.
YES
Replace the transformer.
DRY351_S

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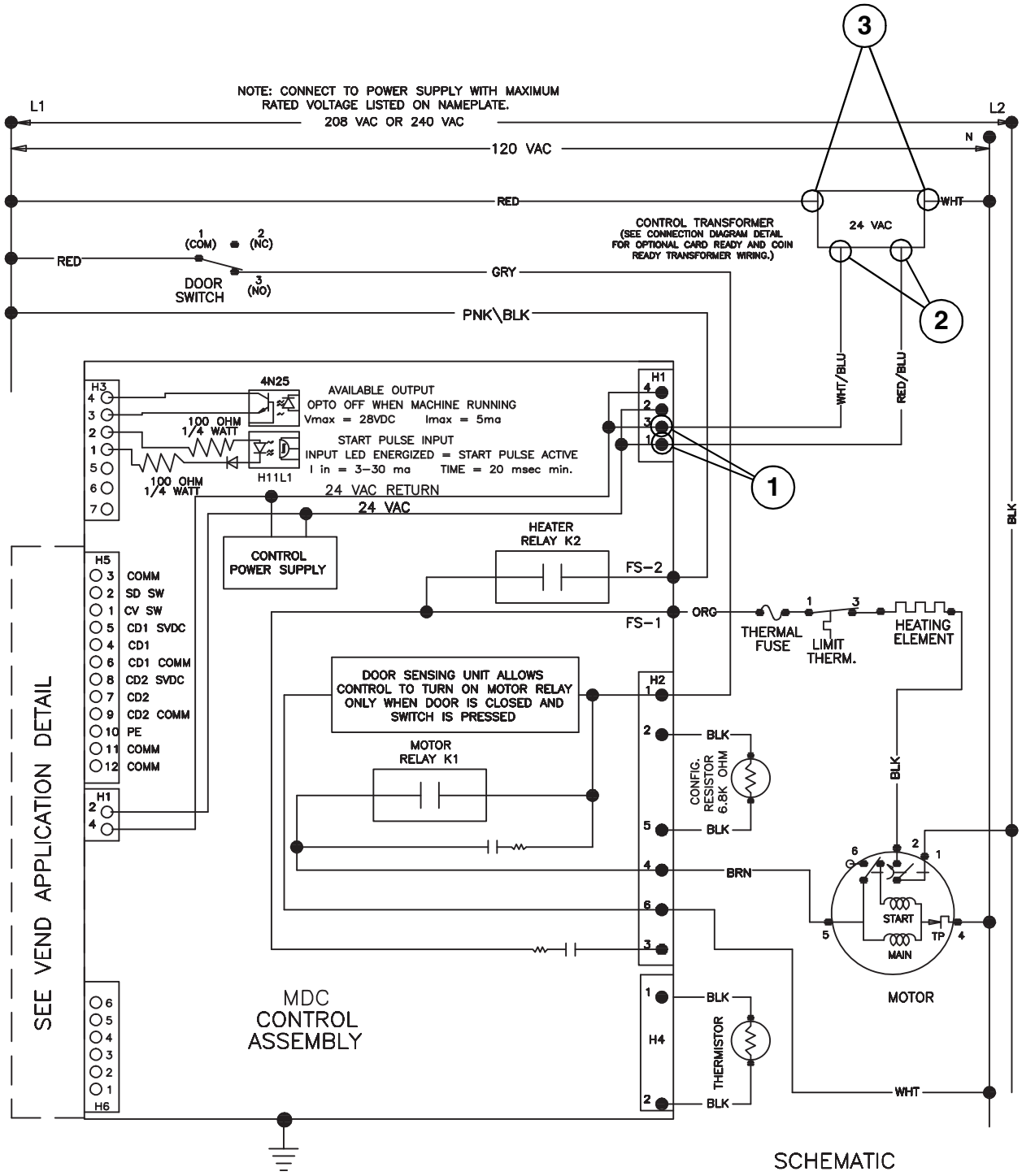
No Visible Display on Control



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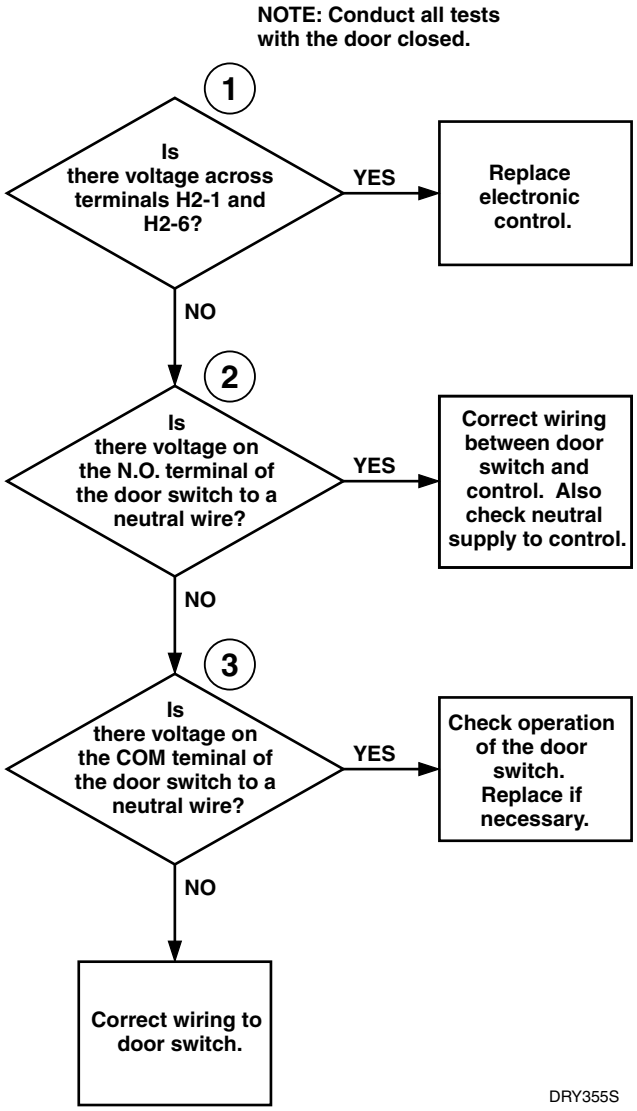
39. Door Open


NOTE: Conduct all tests with the door closed.
1
Is there voltage across terminals H2-1 and H2-6?
YES
Replace electronic control.
NO
2
Is there voltage on the N.O. terminal of the door switch to a neutral wire?
YES
Correct wiring between door switch and control. Also check neutral supply to control.
NO
3
Is there voltage on the COM teminal of the door switch to a neutral wire?
YES
Check operation of the door switch. Replace if necessary.
NO
Correct wiring to door switch.
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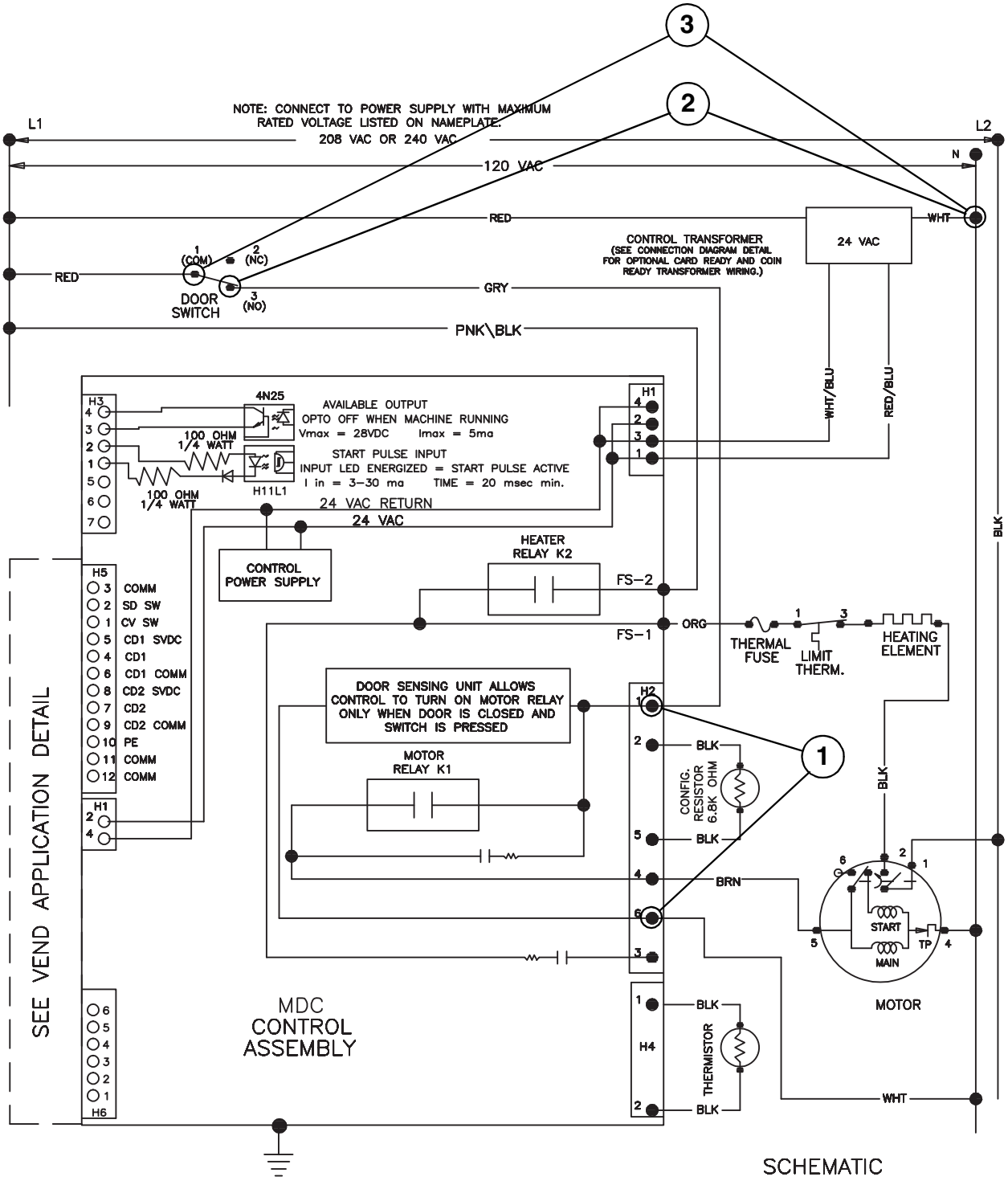
Door Open



SCHEMATIC

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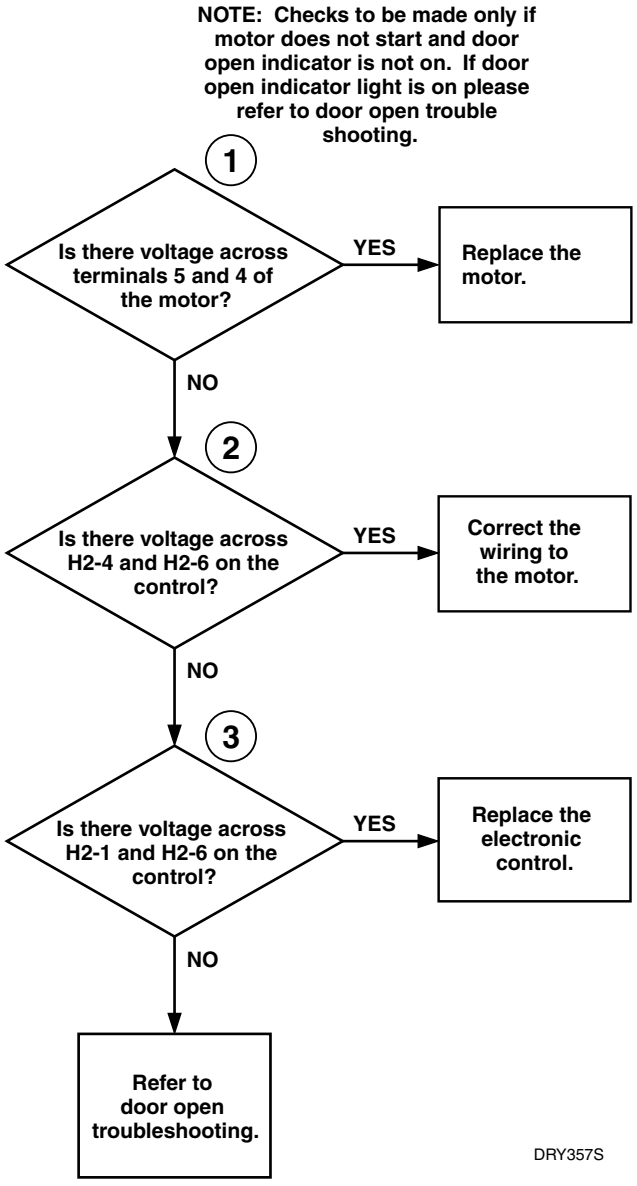
40. Motor Will Not Start


NOTE: Checks to be made only if motor does not start and door open indicator is not on. If door open indicator light is on please refer to door open trouble shooting.
1
Is there voltage across terminals 5 and 4 of the motor?
YES
Replace the motor.
NO
2
Is there voltage across H2-4 and H2-6 on the control?
YES
Correct the wiring to the motor.
NO
3
Is there voltage across H2-1 and H2-6 on the control?
YES
Replace the electronic control.
NO
Refer to door open troubleshooting.
DRY357S

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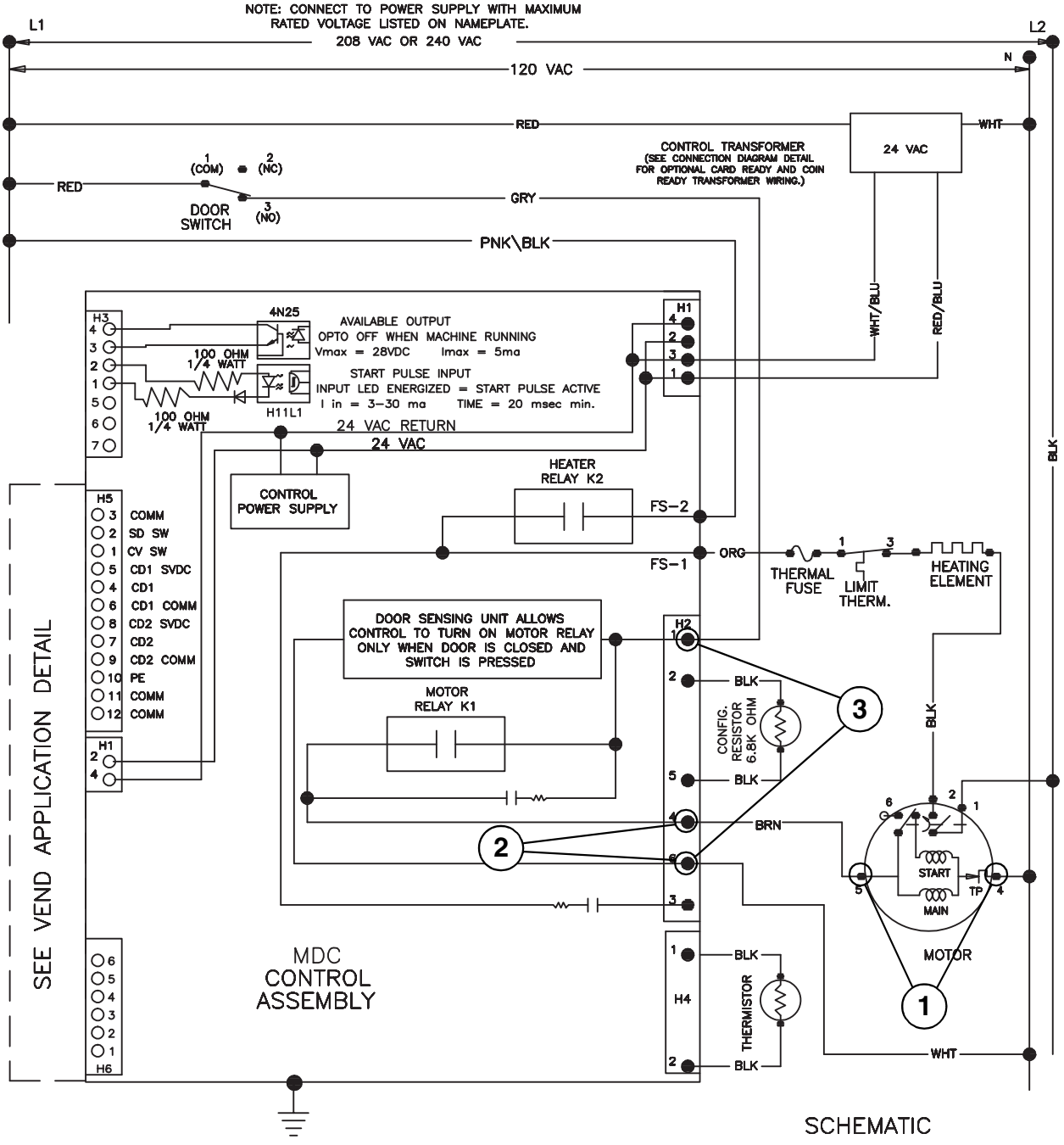
Motor Will Not Start



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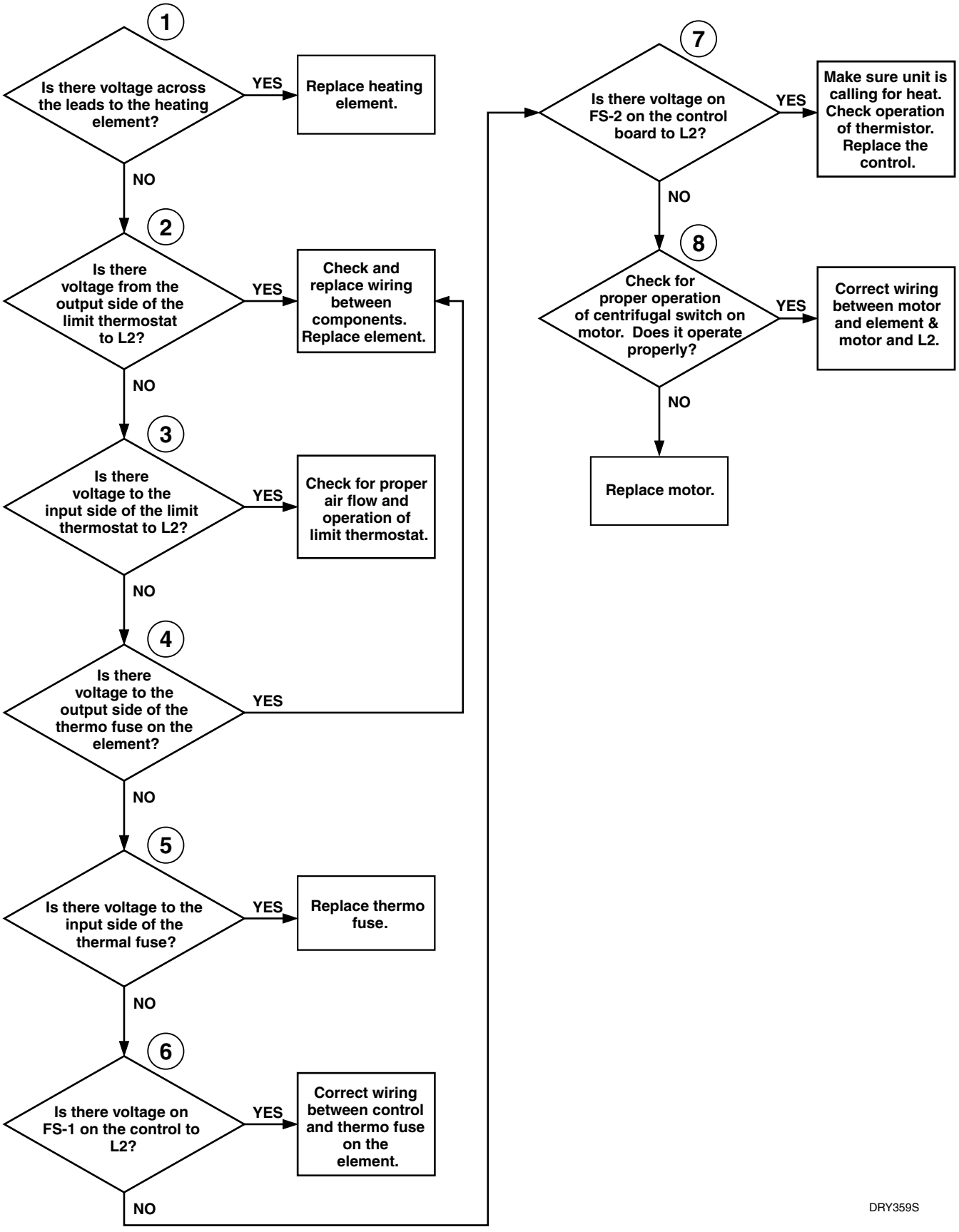
41. No Heat (Electric)


1
Is there voltage across the leads to the heating element?
YES
Replace heating element.
NO
2
Is there voltage from the output side of the limit thermostat to L2?
YES
Check and replace wiring between components. Replace element.
NO
3
Is there voltage to the input side of the limit thermostat to L2?
YES
Check for proper air flow and operation of limit thermostat.
NO
4
Is there voltage to the output side of the thermo fuse on the element?
YES
NO
5
Is there voltage to the input side of the thermal fuse?
YES
Replace thermo fuse.
NO
6
Is there voltage on FS-1 on the control to L2?
YES
Correct wiring between control and thermo fuse on the element.
NO
7
Is there voltage on FS-2 on the control board to L2?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace the control.
NO
8
Check for proper operation of centrifugal switch on motor. Does it operate properly?
YES
Correct wiring between motor and element & motor and L2.
NO
Replace motor.

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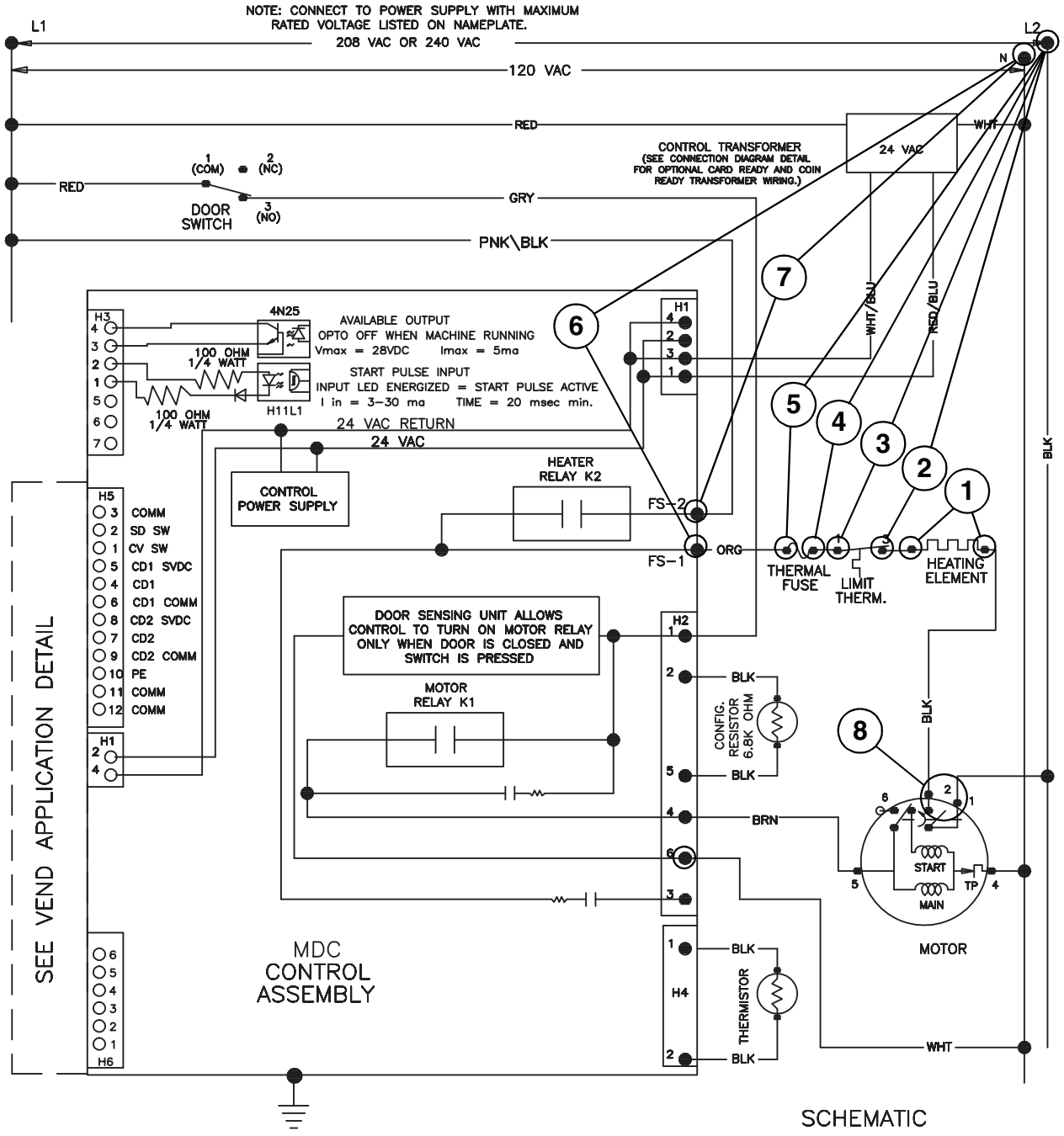
No Heat (Electric)



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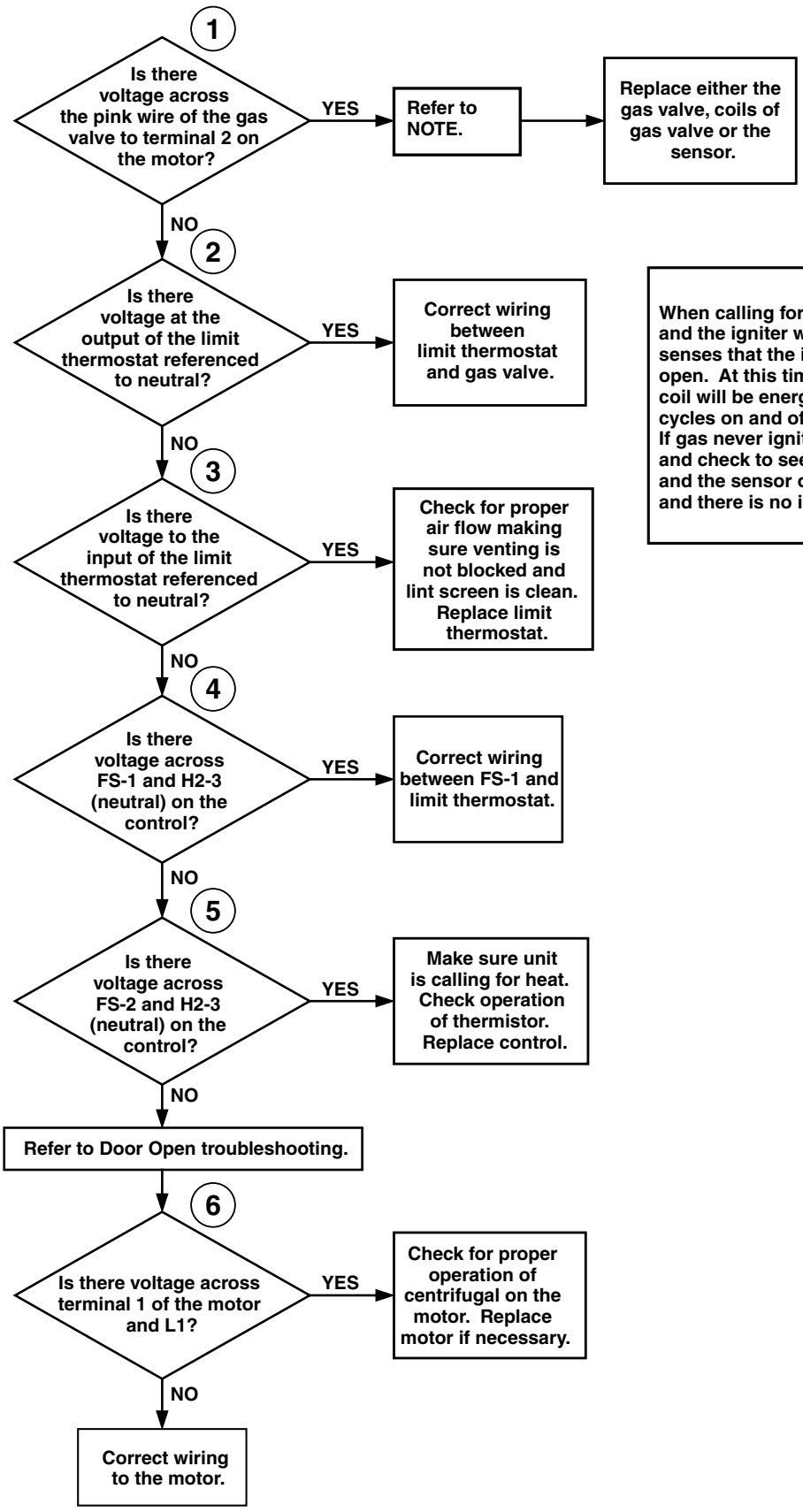
42. No Heat (Gas)


1
Is there voltage across the pink wire of the gas valve to terminal 2 on the motor?
YES
Refer to NOTE.
Replace either the gas valve, coils of gas valve or the sensor.
NO
2
Is there voltage at the output of the limit thermostat referenced to neutral?
YES
Correct wiring between limit thermostat and gas valve.
NO
3
Is there voltage to the input of the limit thermostat referenced to neutral?
YES
Check for proper air flow making sure venting is not blocked and lint screen is clean. Replace limit thermostat.
NO
4
Is there voltage across FS-1 and H2-3 (neutral) on the control?
YES
Correct wiring between FS-1 and limit thermostat.
NO
5
Is there voltage across FS-2 and H2-3 (neutral) on the control?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace control.
NO
Refer to Door Open troubleshooting.
6
Is there voltage across terminal 1 of the motor and L1?
YES
Check for proper operation of centrifugal on the motor. Replace motor if necessary.
NO
Correct wiring to the motor.

NOTE:

When calling for heat the holding coil, the booster coil and the igniter will be energized. Once the sensor senses that the igniter is hot enough for ignition, it will open. At this time the holding coil and the secondary coil will be energized allowing gas to flow. If the flame cycles on and off check for proper operation of sensor. If gas never ignites, check for problems with the coil and check to see if the sensor opens. If coils are good and the sensor opens with the glow bar operational and there is no ignition/gas flow, replace the gas valve.

DRY361_S

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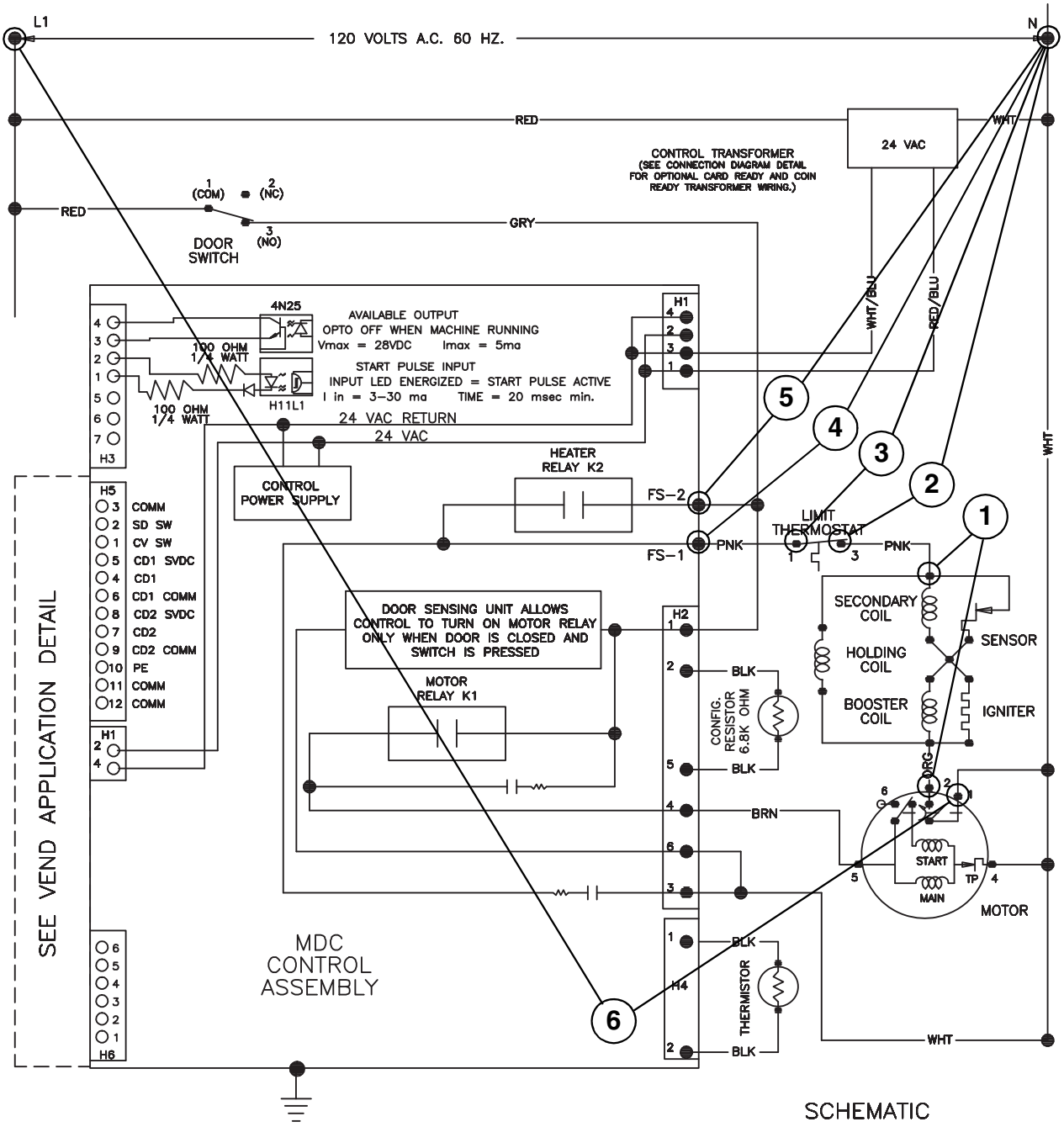
No Heat (Gas)



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Section 7
NetMaster Control Troubleshooting

43. Error Codes

Following is a list of possible error codes. Errors beginning with "EI" refer to NetMaster Infra-red communication errors. Errors beginning with "EC" refer to NetMaster card reader errors. All other errors refer to electronic control errors.

Display Information	Description	Cause/ Corrective Action
EI:01	Transmission Failure	Communication failure. Re-aim Micro-Wand and try again.
EI:02	Device Timeout	Communication failure. Re-aim Micro-Wand and try again.
EI:03	Invalid Command Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:04	Expecting Upload Request	Communication failure. Re-aim Micro-Wand and try again.
EI:05	Invalid or Out-of-Range Data	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:06	Invalid Data Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:07	Error Writing to RTC	Control failure. Replace control.
EI:08	Error Writing to EEPROM	Control failure. Replace control.
EI:09	CRC-16 Error	Communication failure. Re-aim Micro-Wand and try again.
EI:0A	Invalid Machine Type	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:0F	Invalid Wakeup or Infra-red Disabled	Communication failure or infra-red is disabled. Manually enable infra-red on control or re-aim Micro-Wand and try again.
EC:00	General Communication Error	Communication failure. Try card again.
EC:02	Timeout Error	Communication failure. Try card again.
EC:03	Invalid Command Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:05	Invalid or Out-of-Range Data	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:06	Invalid Data Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:09	Corrupted Data Error	Communication error. Try card again.
EC:0A	Invalid Machine Type	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:19	No Card Reader Communication	Communication failure. Power down, power up and try again. If error persists, replace control or card reader.

(continued)

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Display Information	Description	Cause/ Corrective Action
EC:20	Unreadable Card	Faulty card or dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be faulty.
EC:21	Security ID Mismatch	Incorrect card. Use card with correct security code.
EC:22	Site Code Mismatch	Incorrect card. Use card with correct site code.
EC:23	Card Maximum Value Exceeded	Value on card over max. Use a card which does not exceed maximum value.
EC:24	Insufficient Memory on Card	Card memory is full. Download card contents to PC and clear card for re-use.
EC:25	Card Reader Malfunction	Faulty card reader. Replace card reader.
EC:26	Card Write Error	Try card again. If error persists, card may be faulty.
EC:27	Diagnostic Test Card Write Failure	Faulty card reader. Replace card reader.
EC:28	Diagnostic Test Card Read Failure	Faulty card reader. Replace card reader.
EC:29	Diagnostic Test Memory Test Failure	Faulty card reader. Replace card reader.
EC:2A	Diagnostic Test Card Interface Failure	Faulty card reader. Replace card reader.
EC:2b	Diagnostic Test Flash Checksum Failure	Faulty card reader. Replace card reader.
EC:2C	Biberon or Non-biberon Device Failure	Faulty card reader. Replace card reader.
EC:2d	Firmware Update Failed, S/W (Software) Intact	Firmware load failed. Replace card reader.
EC:2E	Firmware Update Failed, S/W Not Intact	Faulty firmware in reader. Replace card reader.
EC:2F	Firmware Updated, S/W Not Intact	Faulty firmware in reader. Replace card reader.
EC:30	Timeout Error	Replace card reader.
EC:31	Hotlisted Card Inserted Into Reader	Card hotlisted. Control will destroy card.
EC:50	Loyalty Purse Read Error	Try card again. If error persists, card may be faulty.
EC:56	Loyalty Purse Write Error	Try card again. If error persists, card may be faulty.
Right most DP (decimal point) Lit	Network Communication Error	Communication problem. Wait for 1.5 minutes for error to clear. If error doesn't clear, power-down and power-up the machine. If error persists, replace control or network board.
Alrm	Break-in Alarm Error	Service the door or coin vault switches.
OFF	Break-in Alarm Shutdown Error	Service the door or coin vault switches.
E:OP	Open Temperature Sensor Error	Open temperature sensor circuit wiring. Replace sensor.
E:SH	Shorted Temperature Sensor Error	Short in temperature sensor circuit wiring. Replace sensor.

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Display Information	Description	Cause/ Corrective Action
Err	Coin Error	Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures.
OP	Open Thermistor	Physical open in the thermistor circuit. Replace thermistor.
SH	Shorted Thermistor	Dead short in the thermistor circuit. Replace thermistor.

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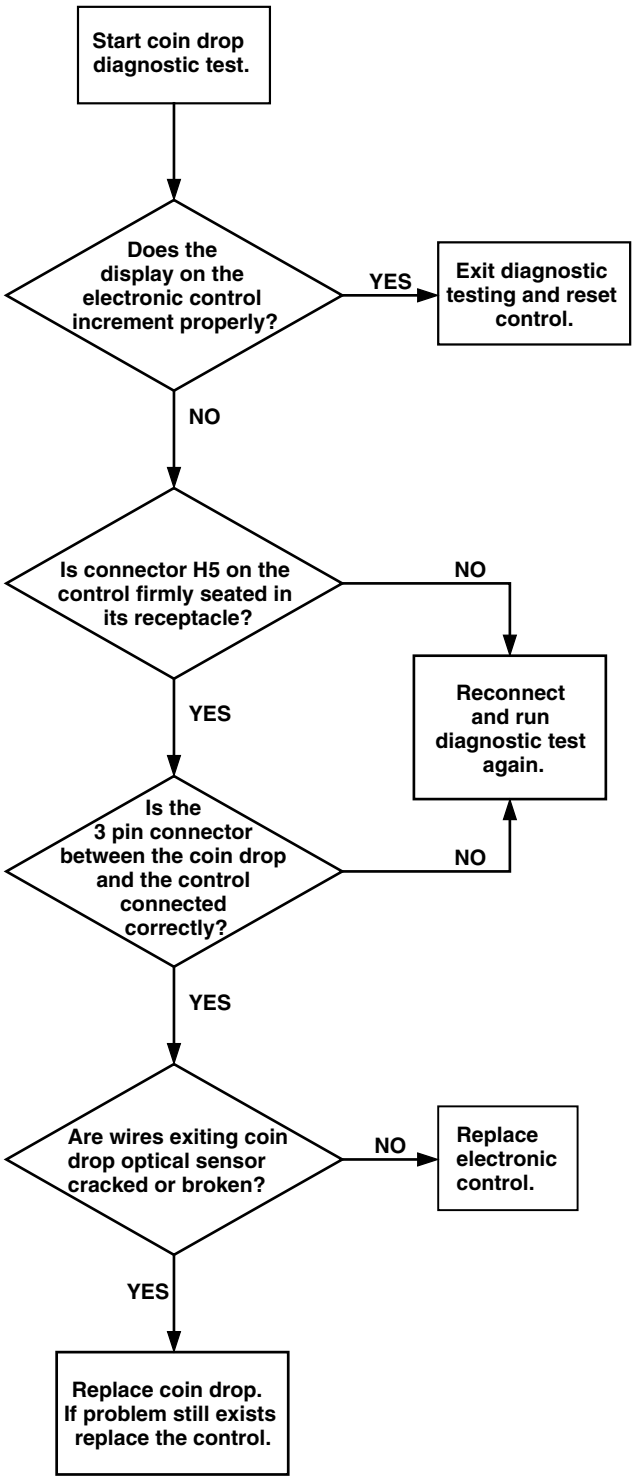
44. Coins Ignored When Entered


Start coin drop diagnostic test.
Does the display on the electronic control increment properly?
YES
Exit diagnostic testing and reset control.
NO
Is connector H5 on the control firmly seated in its receptacle?
NO
Reconnect and run diagnostic test again.
YES
Is the 3 pin connector between the coin drop and the control connected correctly?
NO
YES
Are wires exiting coin drop optical sensor cracked or broken?
NO
Replace electronic control.
YES
Replace coin drop. If problem still exists replace the control.

DRY353S

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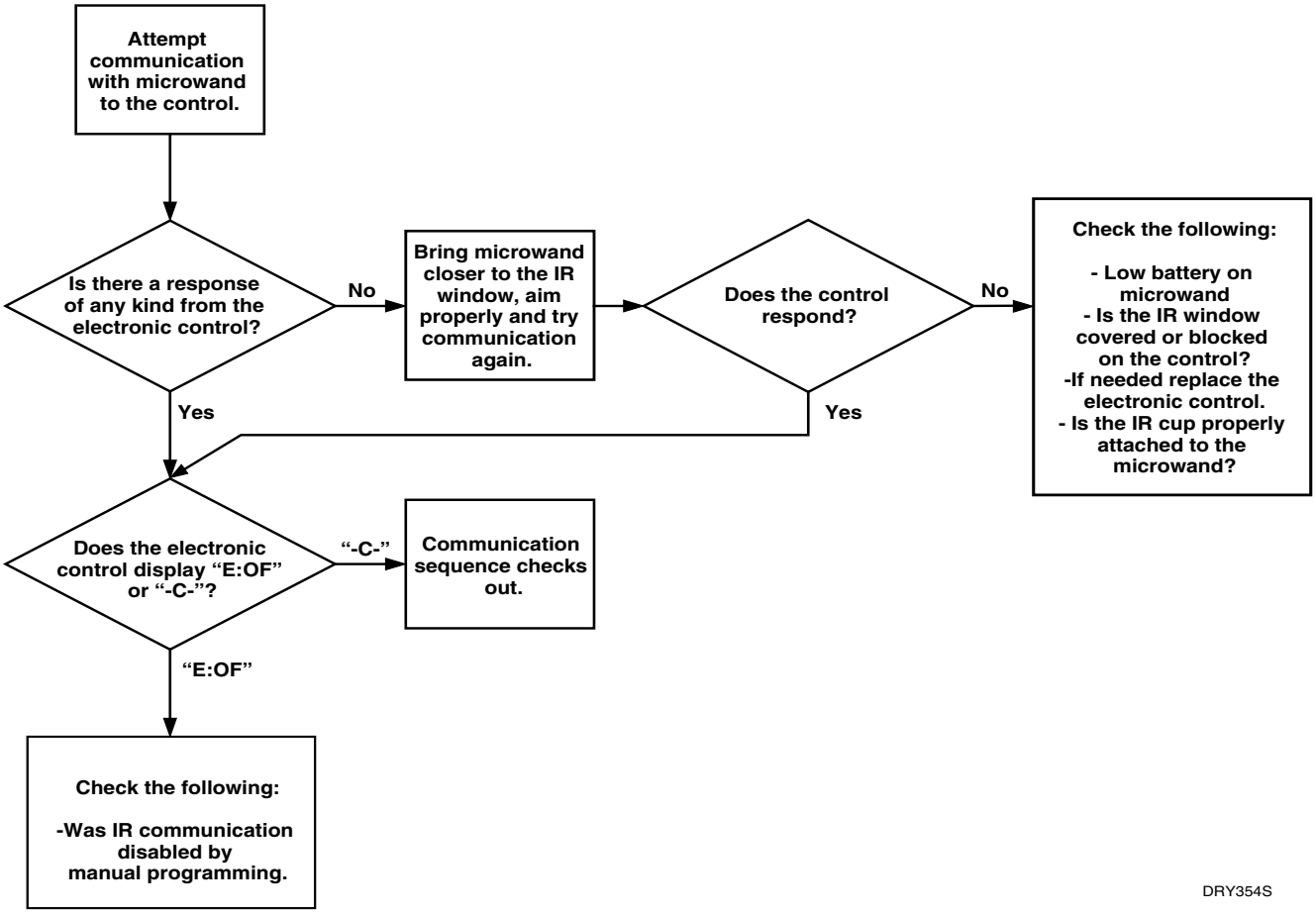
45. No IR Communication


Attempt communication with microwand to the control.
Is there a response of any kind from the electronic control?
No
Bring microwand closer to the IR window, aim properly and try communication again.
Does the control respond?
No
Check the following:
- Low battery on microwand
- Is the IR window covered or blocked on the control?
-If needed replace the electronic control.
- Is the IR cup properly attached to the microwand?
Yes
Yes
Does the electronic control display "E:OF" or "-C-"?
"-C-"
Communication sequence checks out.
"E:OF"
Check the following:
-Was IR communication disabled by manual programming.
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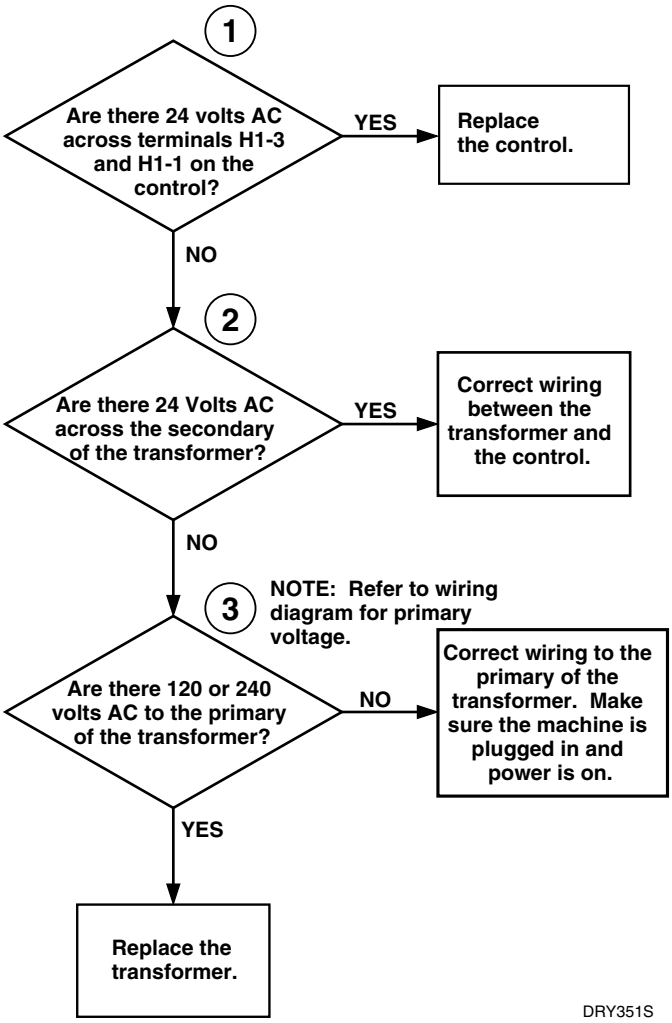
46. No Display


1
Are there 24 volts AC across terminals H1-3 and H1-1 on the control?
YES
Replace the control.
NO
2
Are there 24 Volts AC across the secondary of the transformer?
YES
Correct wiring between the transformer and the control.
NO
3
NOTE: Refer to wiring diagram for primary voltage.
Are there 120 or 240 volts AC to the primary of the transformer?
NO
Correct wiring to the primary of the transformer. Make sure the machine is plugged in and power is on.
YES
Replace the transformer.
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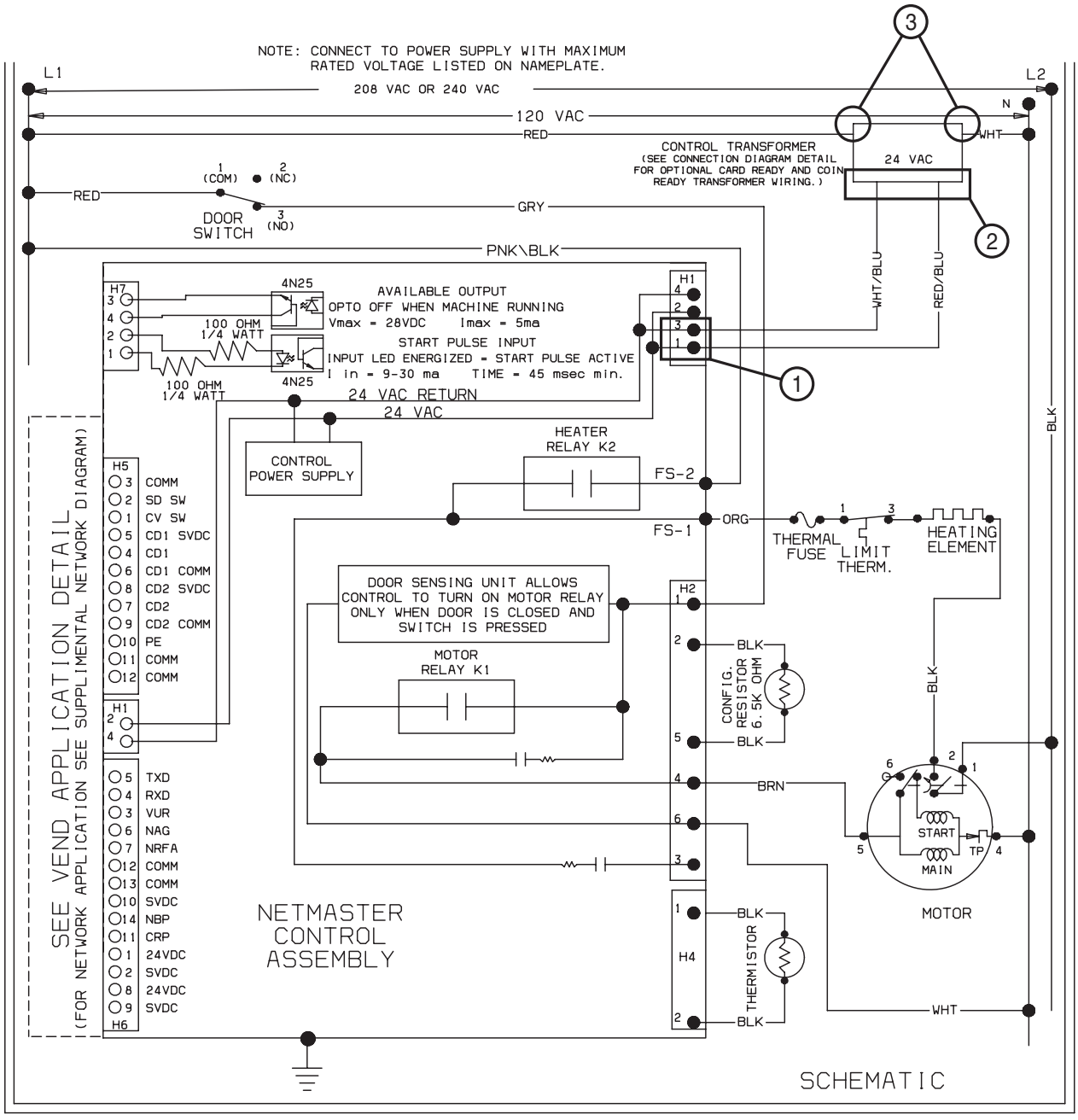
No Display



DRY352S_

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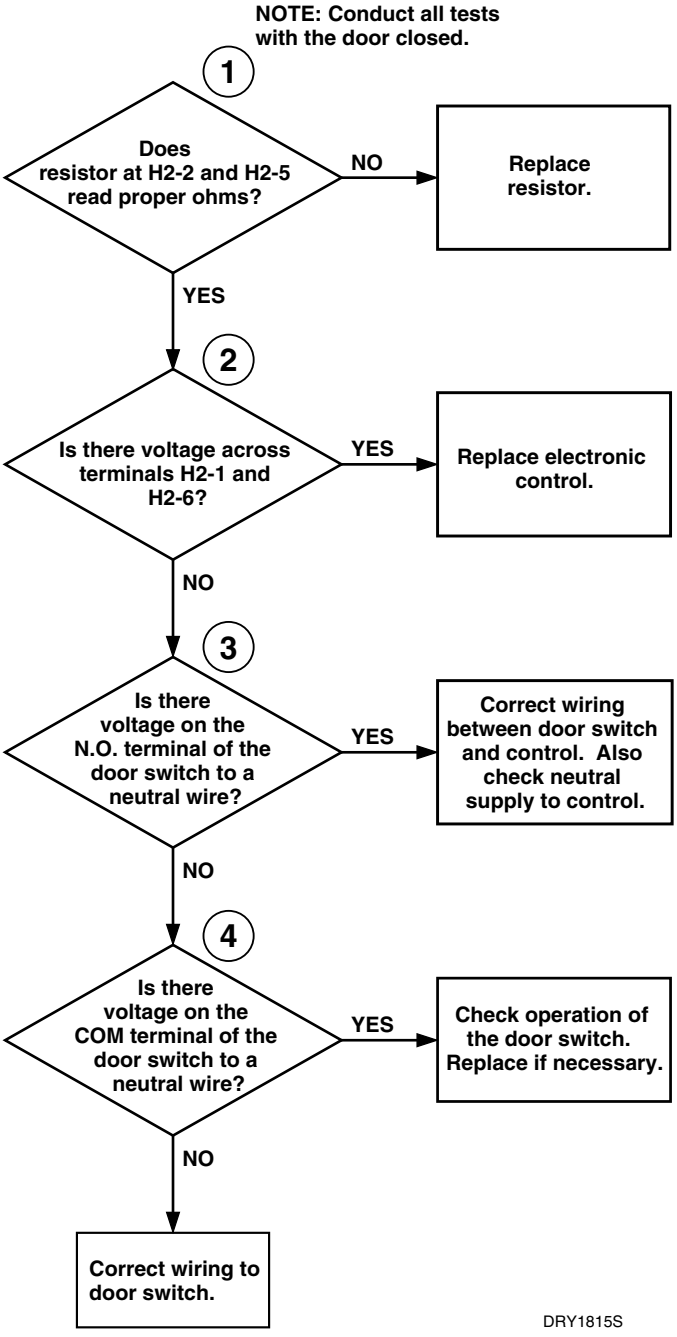
47. Door Open


NOTE: Conduct all tests with the door closed.
1
Does resistor at H2-2 and H2-5 read proper ohms?
NO
Replace resistor.
YES
2
Is there voltage across terminals H2-1 and H2-6?
YES
Replace electronic control.
NO
3
Is there voltage on the N.O. terminal of the door switch to a neutral wire?
YES
Correct wiring between door switch and control. Also check neutral supply to control.
NO
4
Is there voltage on the COM terminal of the door switch to a neutral wire?
YES
Check operation of the door switch. Replace if necessary.
NO
Correct wiring to door switch.
DRY1815S

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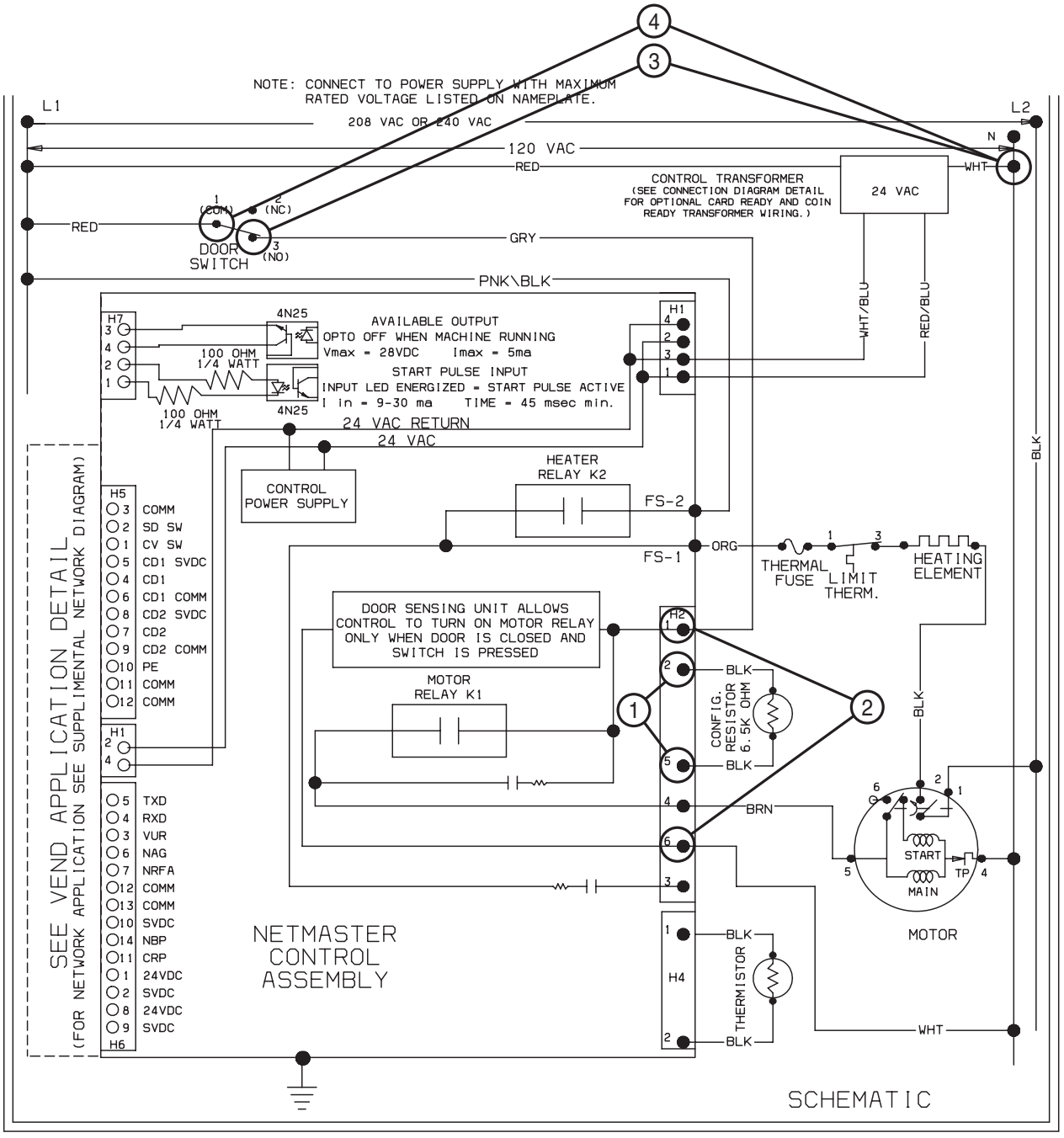
Door Open



DRY1816S

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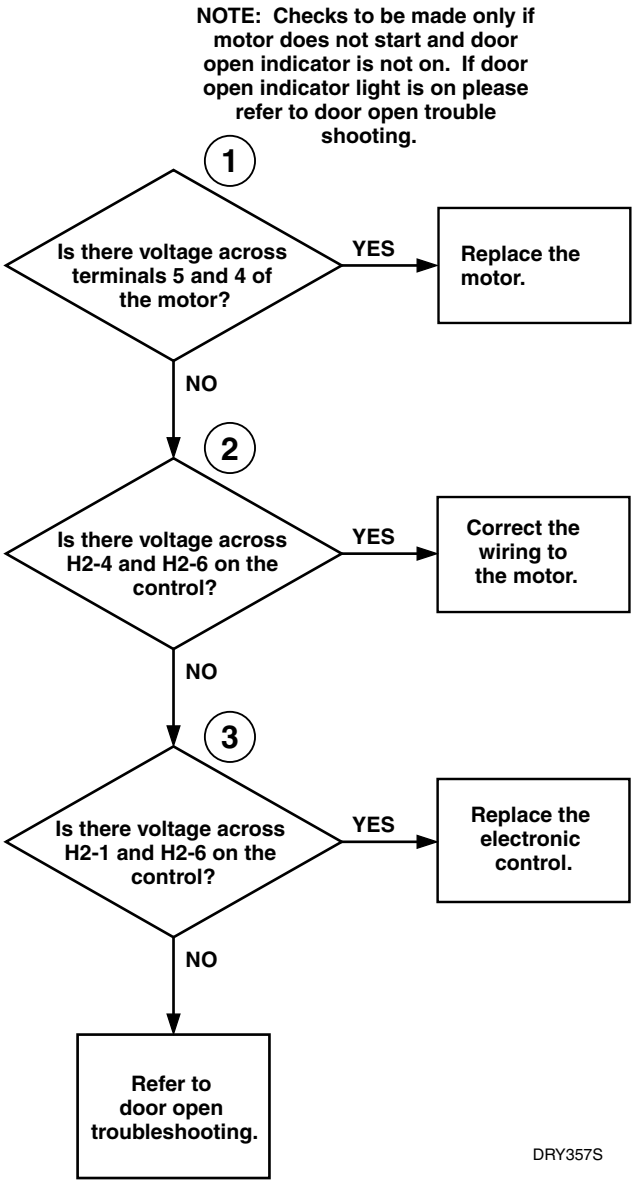
48. Motor Will Not Start


NOTE: Checks to be made only if motor does not start and door open indicator is not on. If door open indicator light is on please refer to door open trouble shooting.
1
Is there voltage across terminals 5 and 4 of the motor?
YES
Replace the motor.
NO
2
Is there voltage across H2-4 and H2-6 on the control?
YES
Correct the wiring to the motor.
NO
3
Is there voltage across H2-1 and H2-6 on the control?
YES
Replace the electronic control.
NO
Refer to door open troubleshooting.
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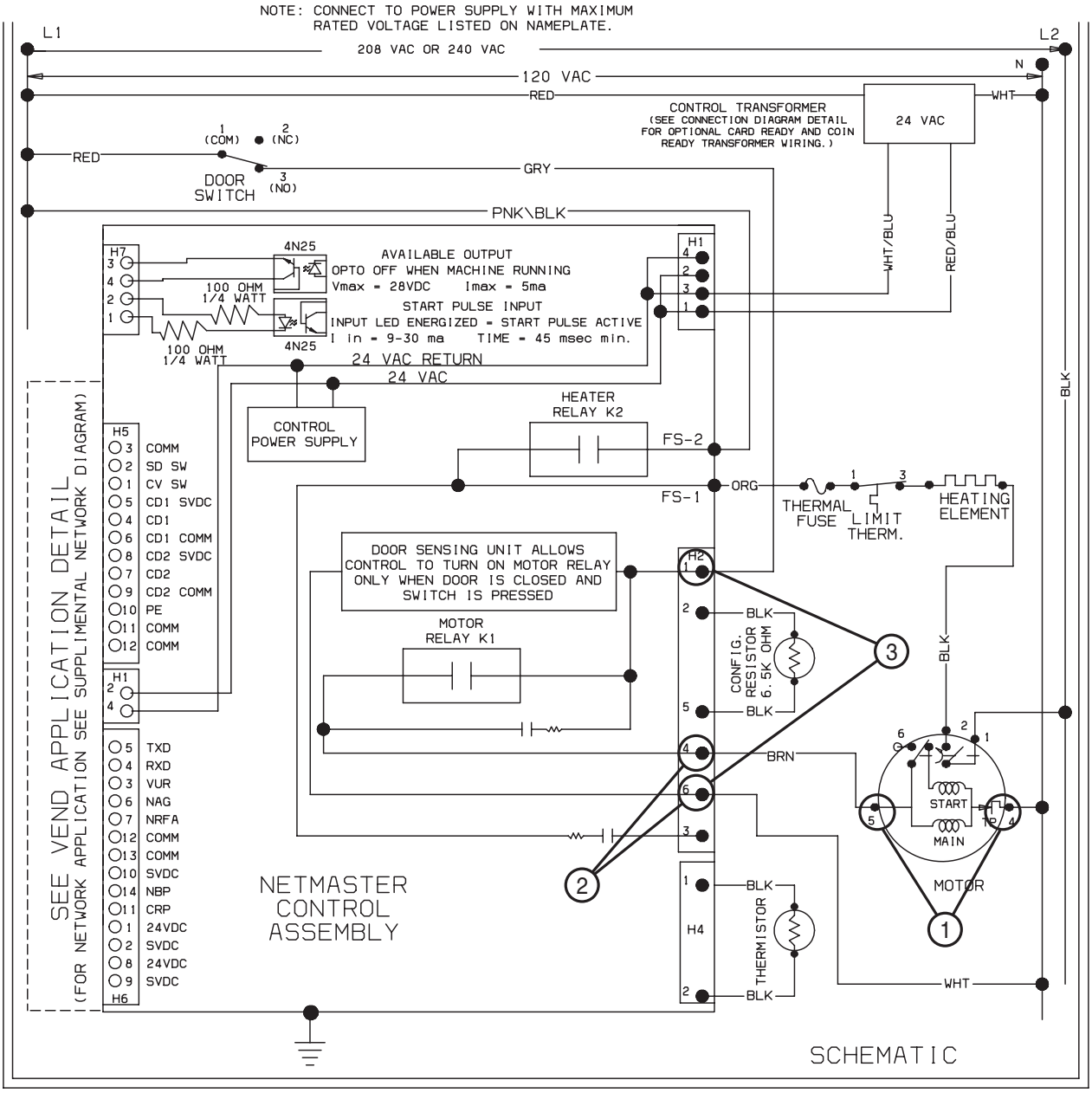
Motor Will Not Start



DRY358S_

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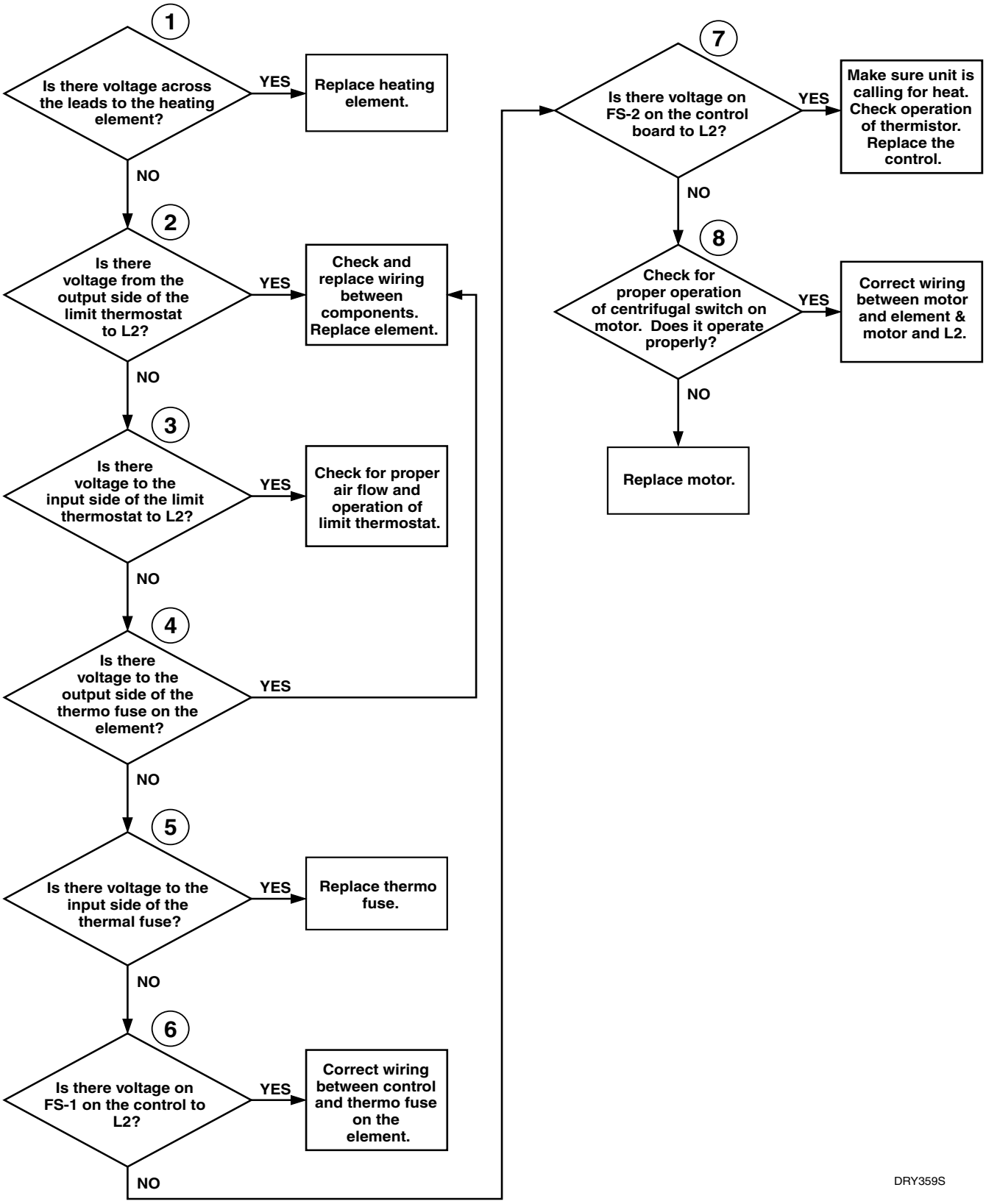
49. No Heat (Electric)


1
Is there voltage across the leads to the heating element?
YES
Replace heating element.
NO
2
Is there voltage from the output side of the limit thermostat to L2?
YES
Check and replace wiring between components. Replace element.
NO
3
Is there voltage to the input side of the limit thermostat to L2?
YES
Check for proper air flow and operation of limit thermostat.
NO
4
Is there voltage to the output side of the thermo fuse on the element?
YES
NO
5
Is there voltage to the input side of the thermal fuse?
YES
Replace thermo fuse.
NO
6
Is there voltage on FS-1 on the control to L2?
YES
Correct wiring between control and thermo fuse on the element.
NO
7
Is there voltage on FS-2 on the control board to L2?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace the control.
NO
8
Check for proper operation of centrifugal switch on motor. Does it operate properly?
YES
Correct wiring between motor and element & motor and L2.
NO
Replace motor.
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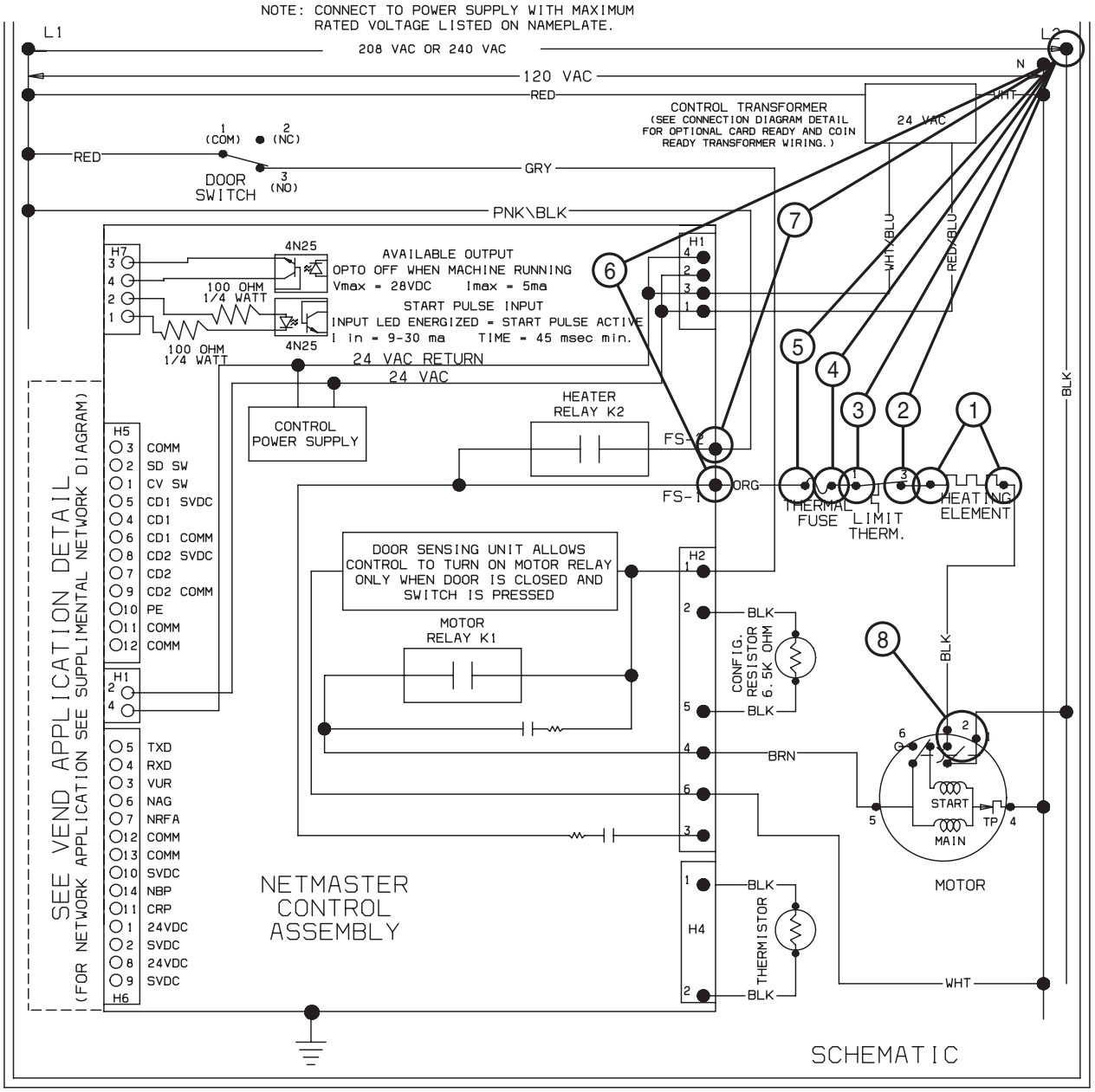
No Heat (Electric)



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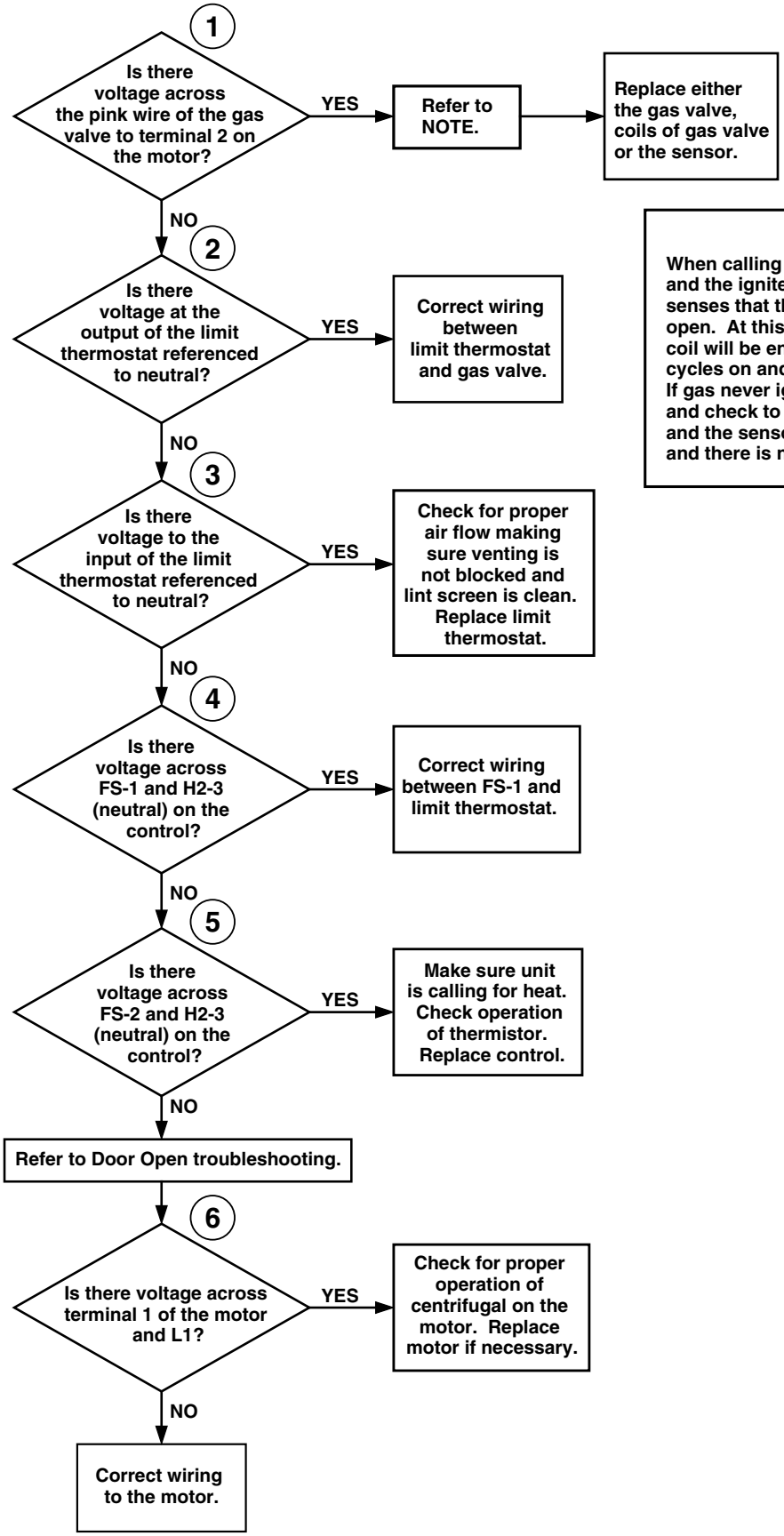
50. No Heat (Gas)


1
Is there voltage across the pink wire of the gas valve to terminal 2 on the motor?
YES
Refer to NOTE.
Replace either the gas valve, coils of gas valve or the sensor.
NO
2
Is there voltage at the output of the limit thermostat referenced to neutral?
YES
Correct wiring between limit thermostat and gas valve.
NO
3
Is there voltage to the input of the limit thermostat referenced to neutral?
YES
Check for proper air flow making sure venting is not blocked and lint screen is clean. Replace limit thermostat.
NO
4
Is there voltage across FS-1 and H2-3 (neutral) on the control?
YES
Correct wiring between FS-1 and limit thermostat.
NO
5
Is there voltage across FS-2 and H2-3 (neutral) on the control?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace control.
NO
Refer to Door Open troubleshooting.
6
Is there voltage across terminal 1 of the motor and L1?
YES
Check for proper operation of centrifugal on the motor. Replace motor if necessary.
NO
Correct wiring to the motor.

NOTE:
When calling for heat the holding coil, the booster coil and the igniter will be energized. Once the sensor senses that the igniter is hot enough for ignition, it will open. At this time the holding coil and the secondary coil will be energized allowing gas to flow. If the flame cycles on and off check for proper operation of sensor. If gas never ignites, check for problems with the coil and check to see if the sensor opens. If coils are good and the sensor opens with the glow bar operational and there is no ignition/gas flow, replace the gas valve.

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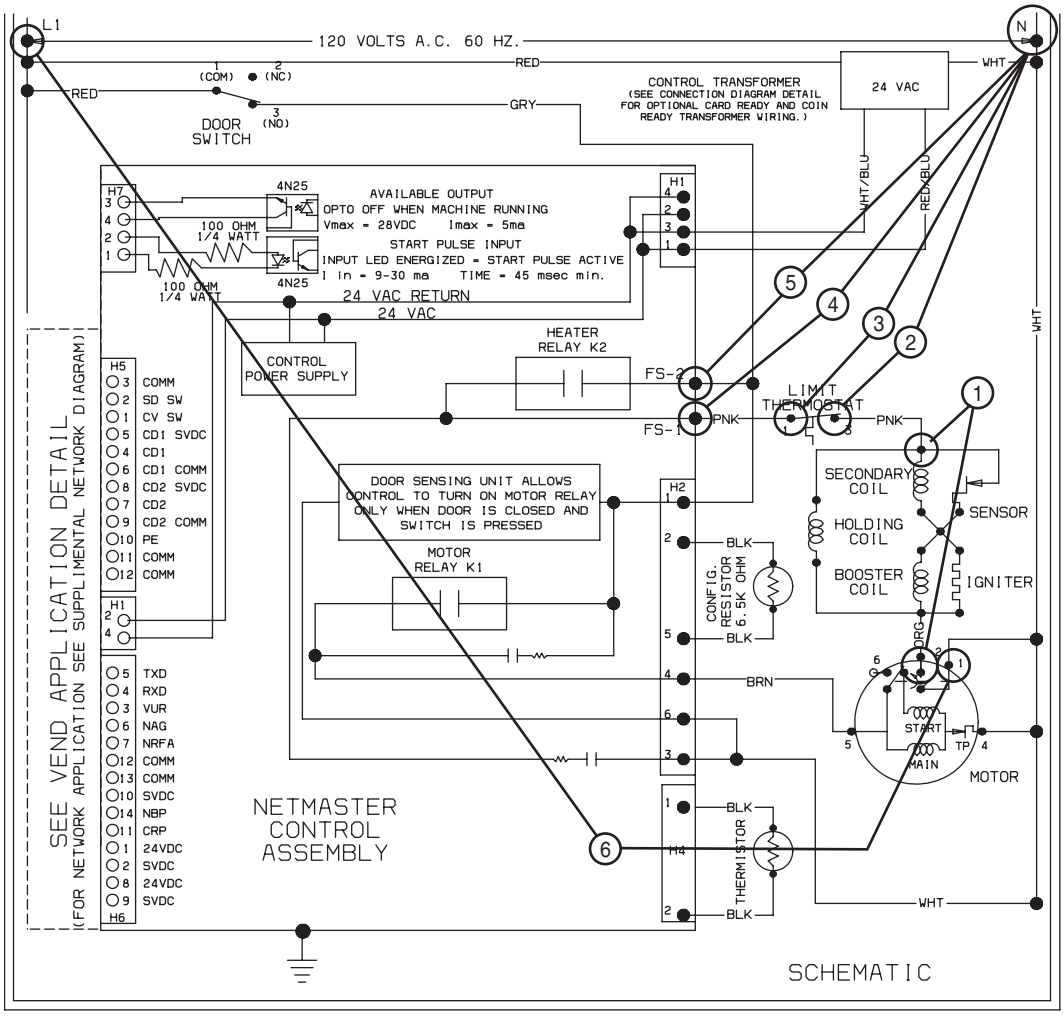
No Heat (Gas)



DRY362S_

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Section 8
Coin Drop Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

51. Troubleshooting Coin Drop

a. Non-Electronic Coin Drops:

When coin is placed into coin slot, the coin should roll down drop and be heard dropping into coin vault. If coin does not fall into coin vault or if coin drop sensor does not register that coin has been entered, follow troubleshooting instructions on following page. Refer to *Figure 1* for path that coin follows when working properly (non-electronic coin drops).

IMPORTANT: Never use oil to correct coin drop problems. Oil residue will prevent coins from rolling properly.

IMPORTANT: Do not bend or damage mechanical parts within coin drop.

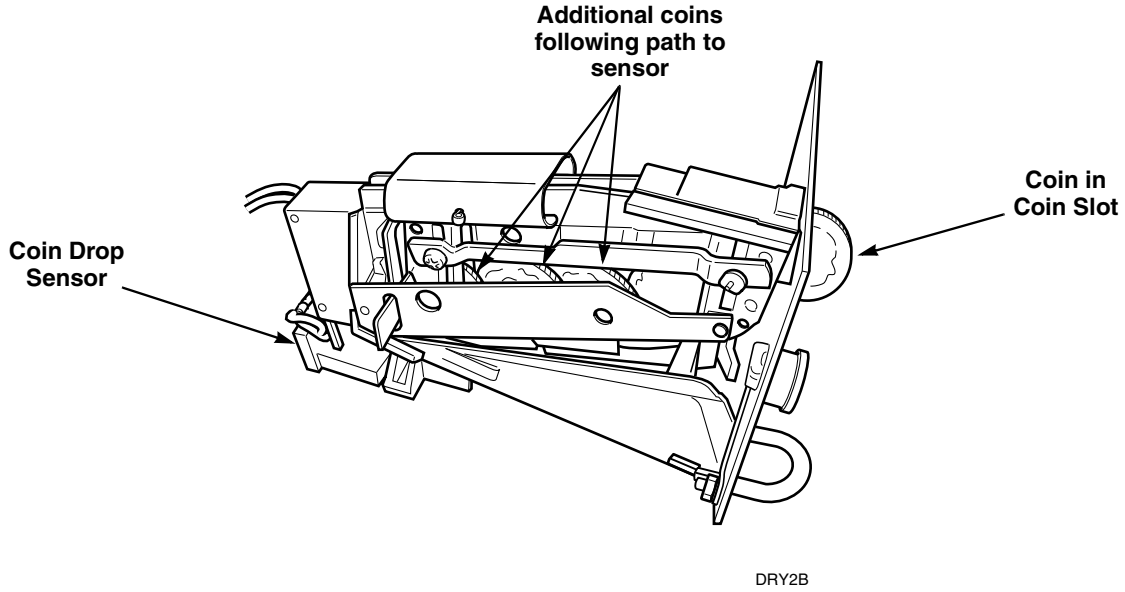

Figure 1

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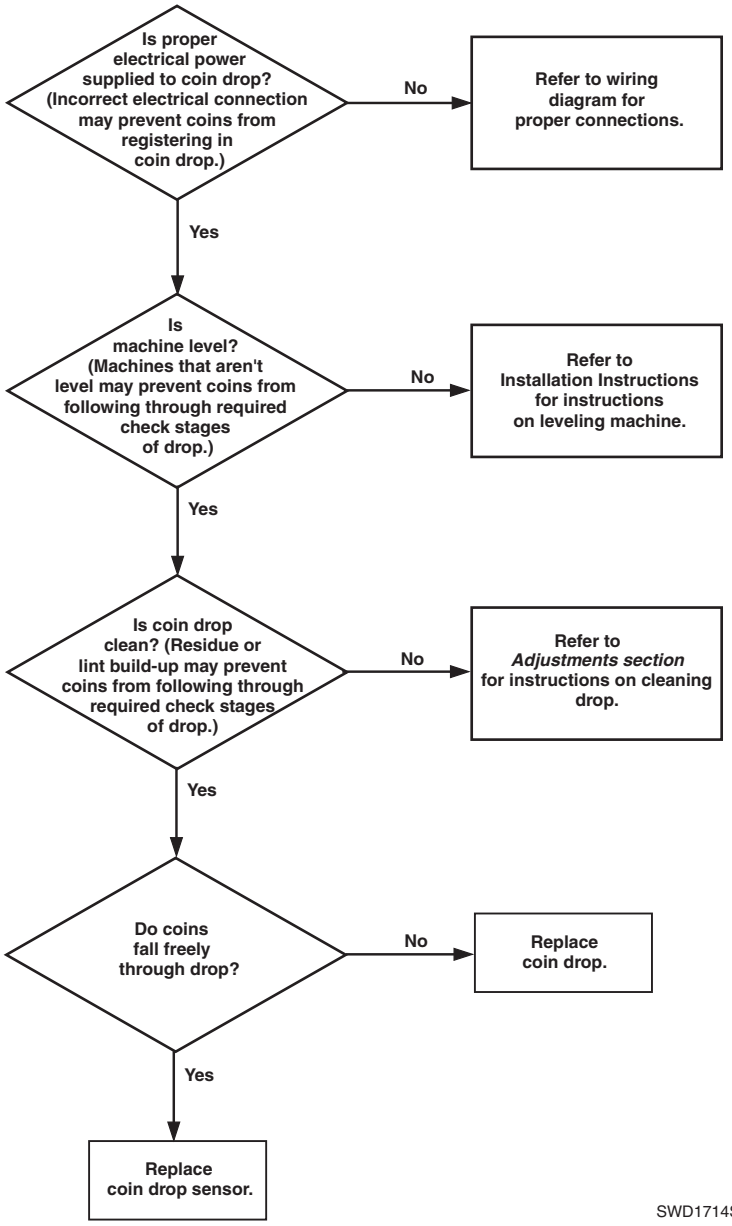
WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

51. Troubleshooting Coin Drop (continued)


Is proper electrical power supplied to coin drop? (Incorrect electrical connection may prevent coins from registering in coin drop.)
No
Refer to wiring diagram for proper connections.
Yes
Is machine level? (Machines that aren't level may prevent coins from following through required check stages of drop.)
No
Refer to Installation Instructions for instructions on leveling machine.
Yes
Is coin drop clean? (Residue or lint build-up may prevent coins from following through required check stages of drop.)
No
Refer to *Adjustments section* for instructions on cleaning drop.
Yes
Do coins fall freely through drop?
No
Replace coin drop.
Yes
Replace coin drop sensor.

SWD1714S

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

b. Electronic Coin Drops:

If coin drop is not accepting coins, perform the following:

(1) Clean coin drop. Refer to *Paragraph 55.*

(2) On electronic coin drops with an old-style tension spring (shown in *Figure 2* and *Figure 4*), test and replace tension spring using the following instructions.

Remove Coin Drop From Machine

(1) Disconnect electrical power to machine and drop.

(2) Remove coin drop from machine.

Test Tension Spring

(1) Push coin return button to open and close coin drop cover to clear possible coin jams. Refer to *Figure 2*.

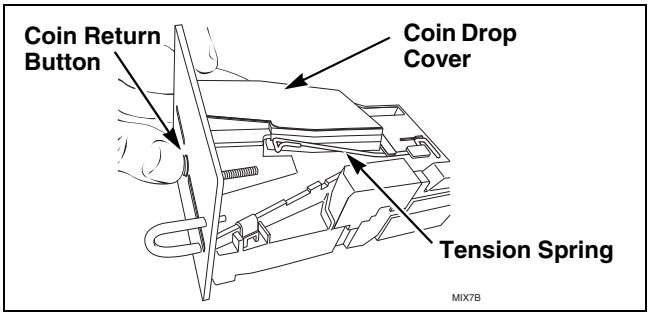

Figure 2

(2) Manually hold down coin drop cover and insert coin. Refer to *Figure 3*.

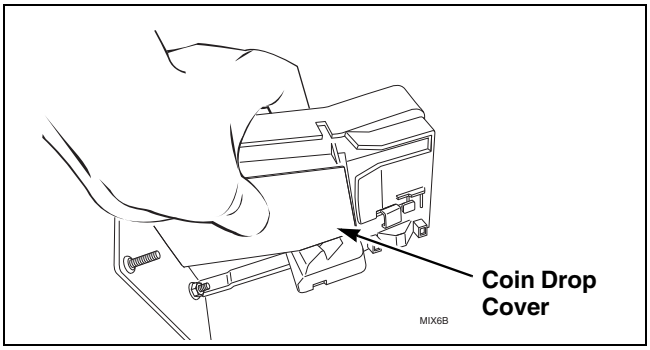

Figure 3

(3) If coin drop now operates properly, replace tension spring using instructions on following pages.

Replace Tension Spring

(1) Move tension spring downward until cover catch is free. Refer to *Figure 4*.

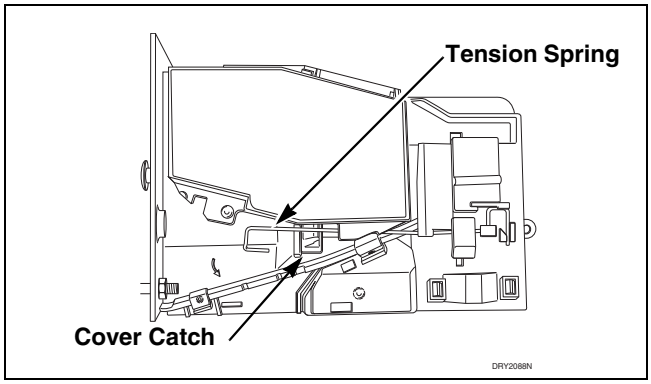

Figure 4

(2) Open cover for coin drop.

(3) Place a small flathead screwdriver under right side of tension spring and lift up. Refer to *Figure 5*.

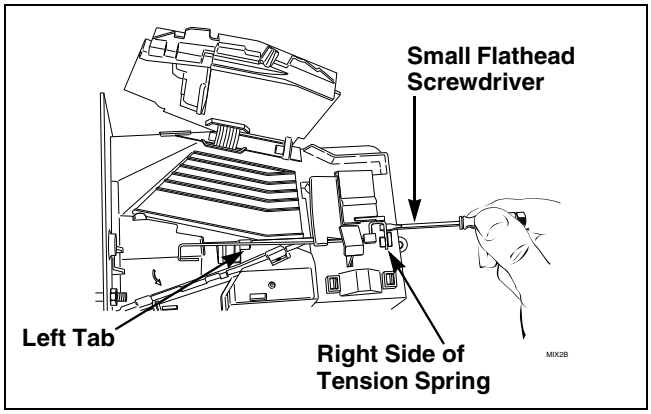

Figure 5

(4) Use screwdriver to move spring approximately 3 mm to left.

(5) Lift spring over left tab. Refer to *Figure 5*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

(6) Rotate spring clockwise, 40 to 60 degrees, until it is free from right tabs. Refer to *Figure 6*.

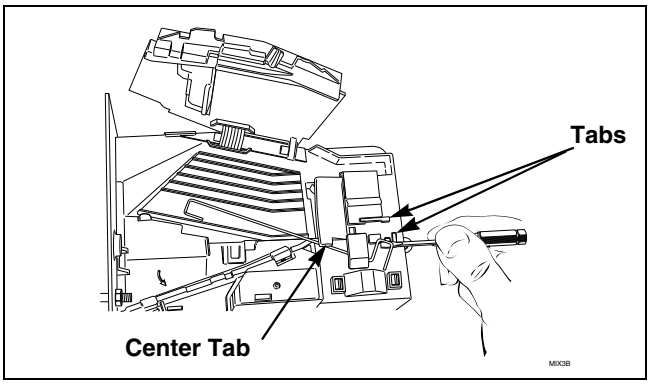

Figure 6

(7) Use screwdriver to remove spring from center tab. Refer to *Figure 6*.
(8) Lift spring, with attached clip, off drop.
(9) Remove clip from spring. Refer to *Figure 7*.

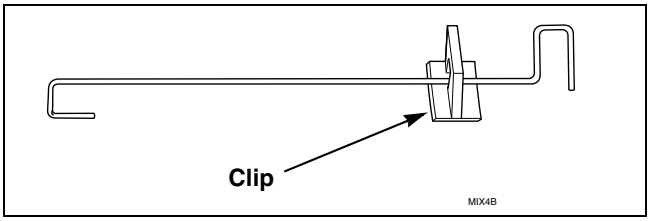

Figure 7

(10) Attach clip to new tension spring, Part No. 209/00598/02.

(11) Place clip, installed on spring, in slot on coin drop. Refer to *Figure 8*.

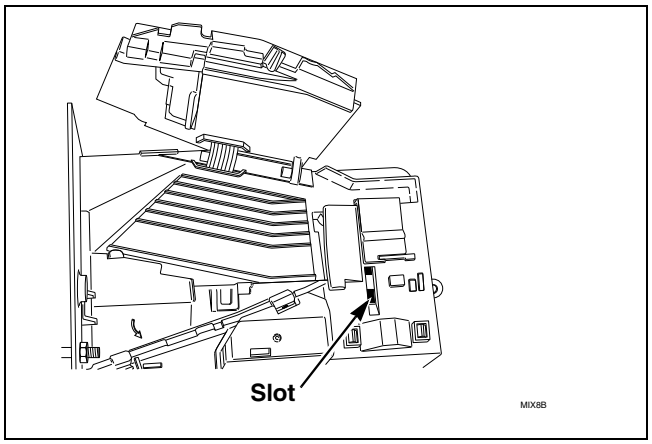

Figure 8

(12) Use a small flathead screwdriver to push spring under center tab. Refer to *Figure 9*.

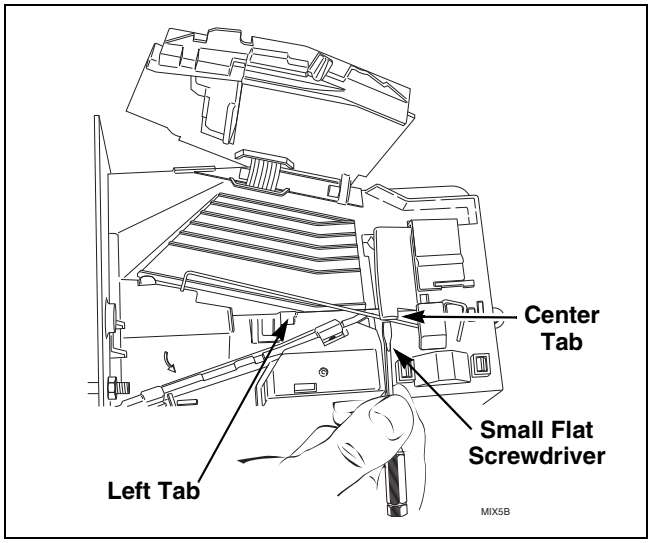

Figure 9

(13) Lift spring gently to place in position under left tab.
(14) Push spring to right until it snaps into position. Refer to *Figure 5*.
(15) Close coin drop cover.
(16) Move tension spring over cover catch. Refer to *Figure 4*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

Reinstall Coin Drop Into Machine

(1) Reinstall coin drop into machine.
(2) Reconnect electrical power to machine and drop.
(3) Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

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Section 9
Adjustments

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

52. Leveling Legs

Refer to *Figure 10.*

NOTE: Dryer should be installed on a solid and level floor.

a. Place dryer in position, adjusting the legs until dryer is level.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

NOTE: Legs can be adjusted outside the dryer by using a 1-1/4 inch size wrench, or from inside the dryer (with lower front access panel removed) by using a 1/4 inch drive ratchet with extension.

b. Keep dryer as close to the floor as possible. All four legs must rest firmly on the floor so weight of the dryer is evenly distributed. The dryer MUST NOT rock.

IMPORTANT: DO NOT move the dryer at any time unless the dryer is completely assembled. DO NOT slide the dryer across the floor once the leveling legs have been extended as the legs and base could become damaged.

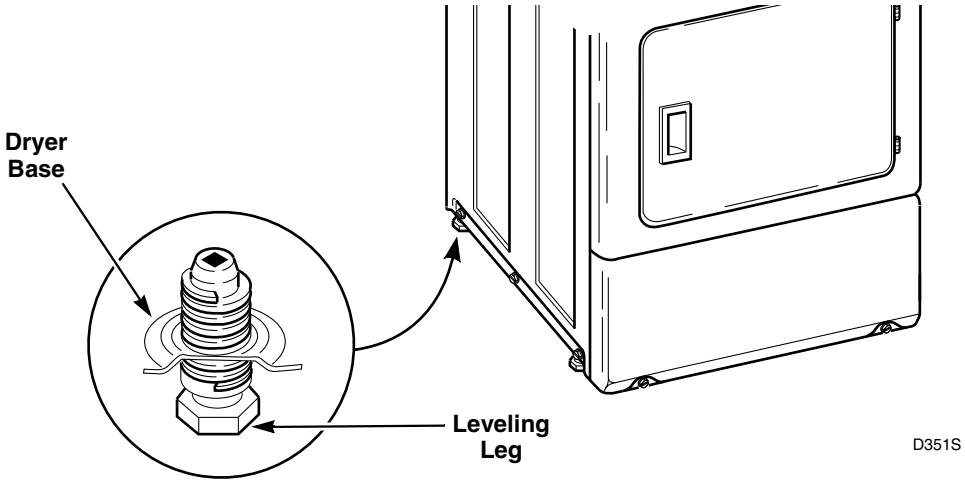

Figure 10

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

53. Burner Flame (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Set timer to 60 minutes.
d. Close the loading door. Start the dryer in a heat setting (refer to Operating Instructions supplied with the dryer). The dryer will start, the igniter will glow red, and the main burner will ignite.
e. Allow the dryer to operate for approximately five minutes, then loosen the air shutter lockscrew. Refer to *Figure 11*.
f. Turn the air shutter to the left to get a luminous yellow tipped flame, then turn it back slowly to the right to obtain a steady blue flame.
g. After proper flame is obtained, tighten air shutter lockscrew firmly. Refer to *Figure 11*.
h. Reinstall access panel and screws.

WARNING

To reduce the risk of fire or serious injury, the access panel must be in place during normal operation.

W262

NOTE: After the dryer has operated for approximately three minutes, exhaust air or exhaust pipe should be warm.

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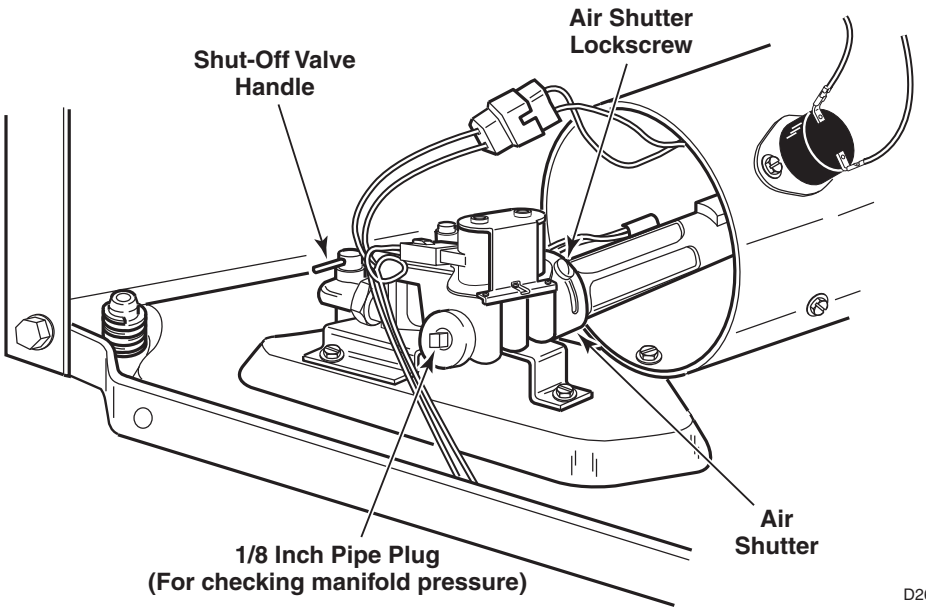
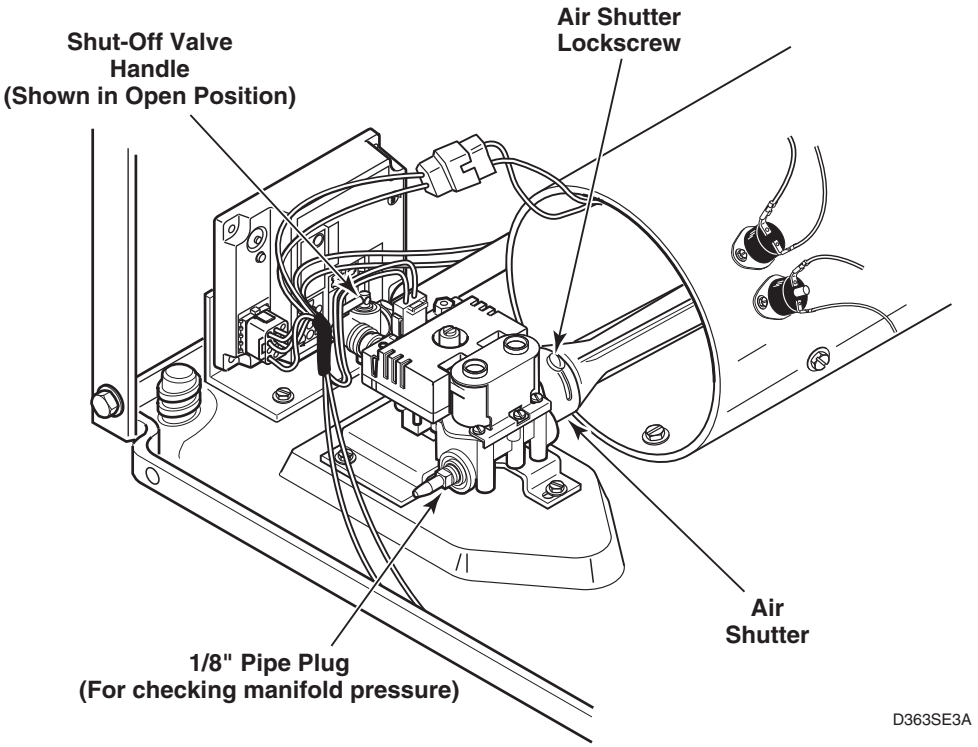


Silicon Carbide Ignition System



Silicon Nitride Ignition System

Figure 11

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

54. Cleaning Non-Electronic Coin Drop

a. Disconnect electrical power to machine and drop.
b. Remove coin drop from machine.
c. If lint is preventing coins from rolling through coin drop, blow compressed air though coin entry and along the side of the coin drop. Refer to *Figure 12*.

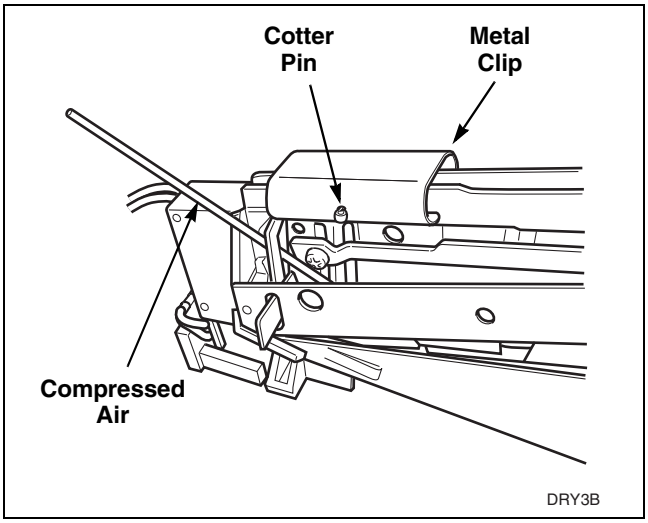

Figure 12

d. Insert a coin through the coin drop. If coin does not roll through drop, continue with the following.
e. Remove cotter pin from top of drop. Refer to *Figure 12*. Save pin for reinstallation when cleaning is complete.
f. Move metal clip closer to sensor so that it comes off frame. Refer to *Figure 12*.
g. Remove coin return from coin drop frame. Refer to *Figure 13*.

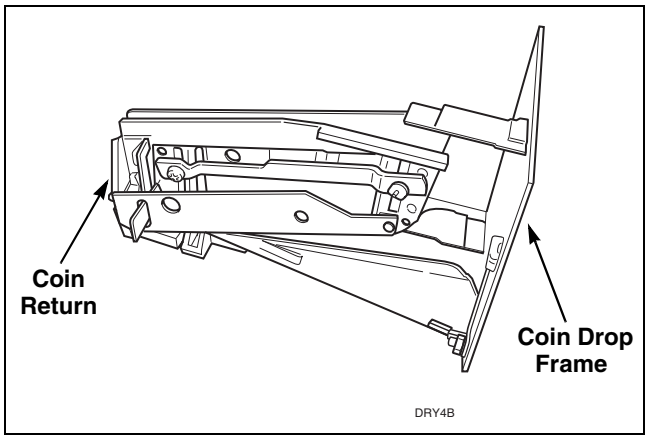

Figure 13

h. Check coin path in coin drop for lint and residue. If lint or light residues are present, use a cotton swab to remove. If heavy residue is present, it may be necessary to first scrape off excessive residue and then use a cotton swab dipped in water or isopropyl alcohol (rubbing alcohol) to remove remainder of residue. Refer to *Figure 14*.

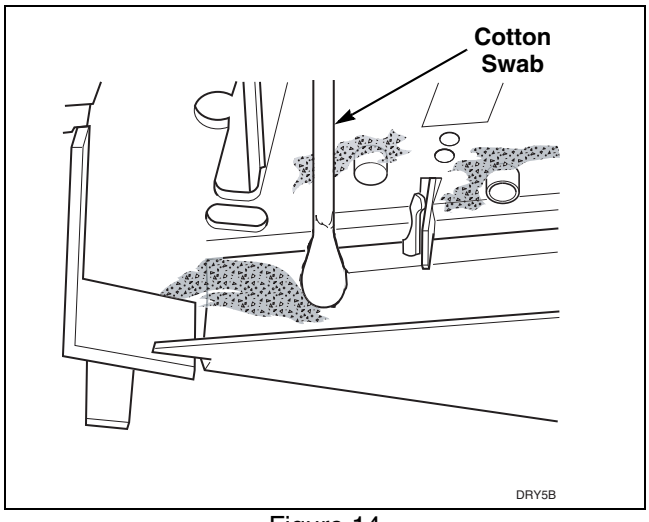

Figure 14

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

i. Check coin return pendulum to verify it swings freely. If pendulum does not swing freely, spray pendulum pivot point with Teflon based lubricant and move pendulum back and forth two to three times. An additional application of Teflon based lubricant may be necessary to ensure that pendulum swings freely. Refer to *Figure 15*.

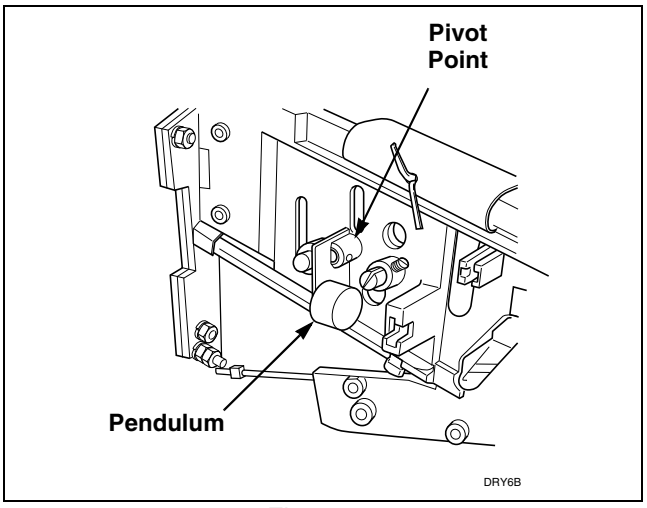

Figure 15

j. Check coin drop sensor for dust or dirt on eyes. Wipe eyes with dry cotton swab. Refer to *Figure 16.*

IMPORTANT: DO NOT use isopropyl alcohol to clean electronic sensor or eyes.

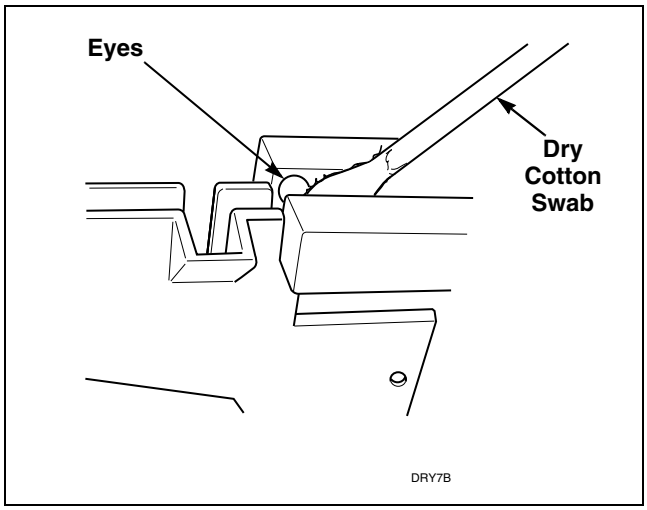

Figure 16

k. Reinstall coin return on to coin drop frame.
l. Reinstall metal clip and slide towards coin insert slot. All cotter pin holes must line up.
m. Reinstall cotter pin.
n. Place drop on level surface to verify that coins follow correct path in drop. It may be necessary to lift drop to allow coin to follow through sensor.
o. Reinstall coin drop into machine.
p. Reconnect electrical power to machine and drop.
q. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

NOTE: If coin drop does not operate properly after above steps have been completed, corrosion of metal or vandalized components within coin drop may be preventing the coin drop from functioning correctly. Replace coin drop.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

55. Cleaning Electronic Coin Drop

NOTE: The electronic coin drop should be cleaned once a year. Clean the drop more often if it is exposed to high levels of residue or lint build-up.

a. Disconnect electrical power to machine and drop.
b. Remove coin drop from machine.
c. Check the spring style of coin drop.
Coin Drops with Old-Style Spring (refer to *Figure 17*):
(1) Move spring downward until cover catch is free. Refer to *Figure 17*.

NOTE: Do not lift or overbend the spring in any direction.

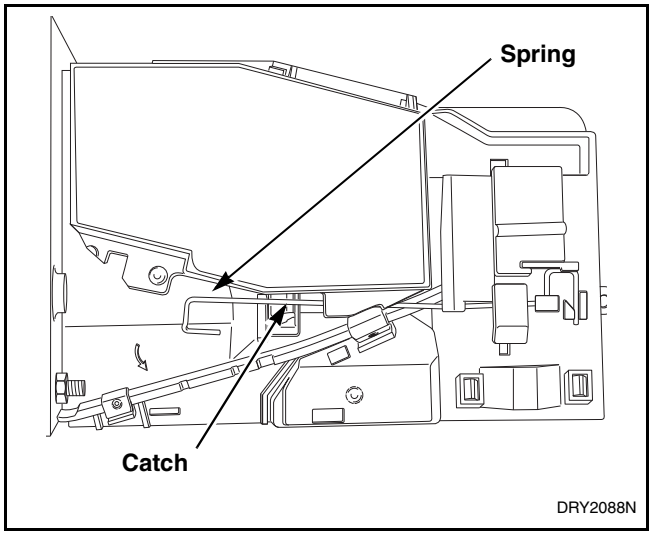

Figure 17

(2) Open cover for coin drop. Refer to *Figure 18*.

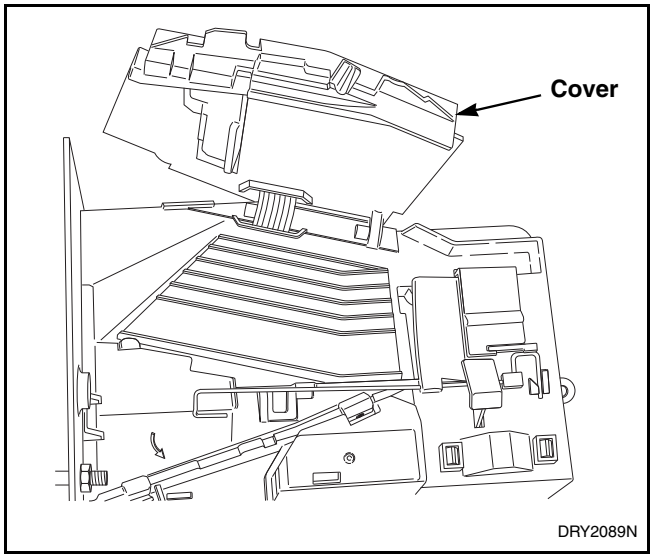

Figure 18

Coin Drops with New-Style Spring (refer to *Figure 19*):

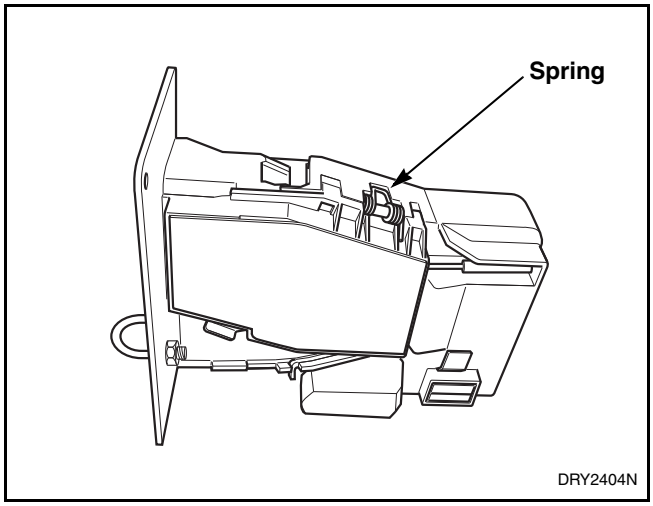

Figure 19

(3) Open cover of coin drop. Refer to *Figure 20*.

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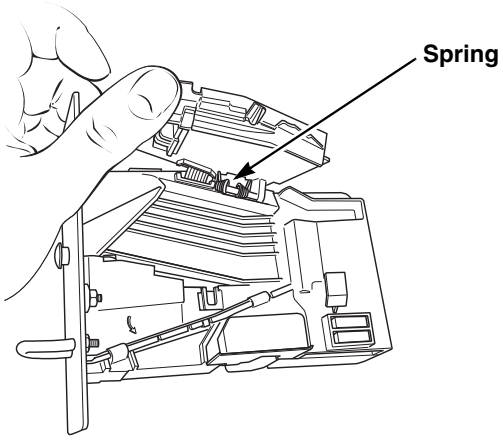
WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

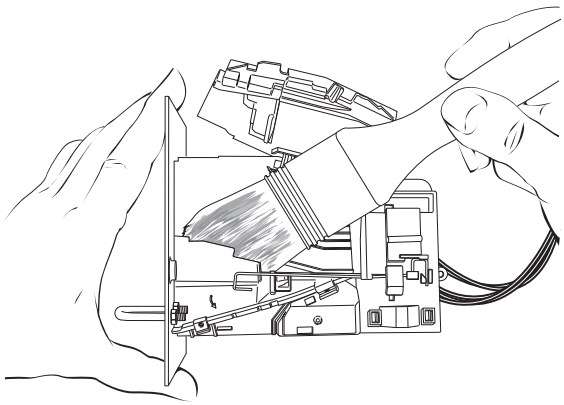
NOTE: Do not overbend the spring by opening cover too far.



DRY2408N

Figure 20

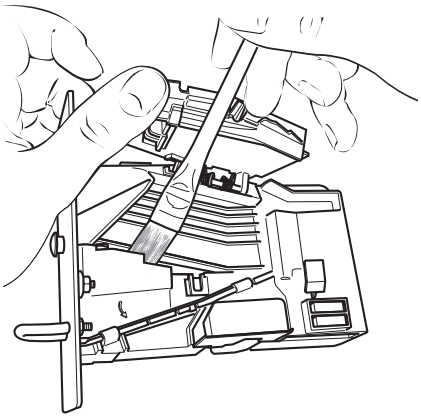
d. Clean the coin path with a soft brush and wipe exposed surfaces with an alcohol moistened cloth. Refer to *Figure 21* or *Figure 22*.



Old-Style Spring Coin Drop

DRY2090N

Figure 21

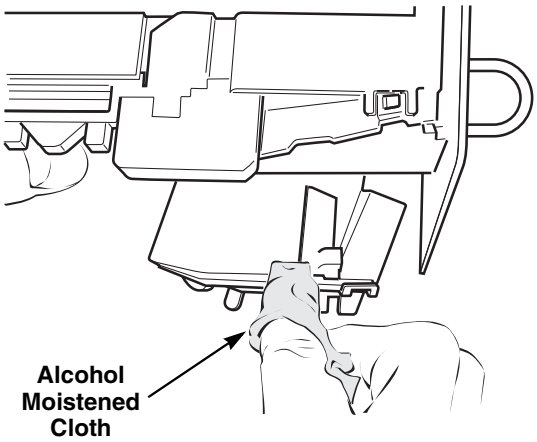


New-Style Spring Coin

DRY2405N

Figure 22

e. Clean residue from coin rail with an alcohol moistened cloth. Refer to *Figure 23*.



DRY2406N

Figure 23

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

f. Clean light sensors with a soft brush or air spray duster. Refer to *Figure 24*.

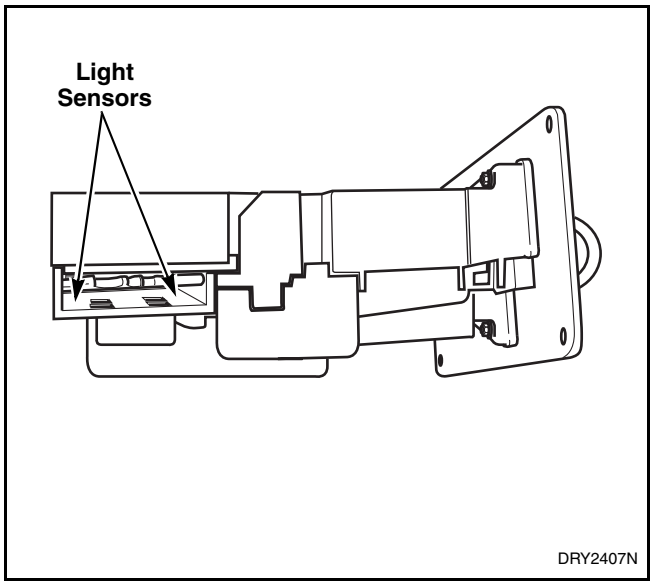

Figure 24

g. Close cover for coin drop.
h. **Coin Drops with OLD-Style Spring** - Move spring back over cover catch.
i. Reinstall coin drop into machine.
j. Reconnect electrical power to machine and drop.
k. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

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Section 10
Test Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

IMPORTANT: Electrical test procedures in this service manual are performed by using a Volt-Ohm meter. Tests can also be performed using a multi-meter or any other electrical testing equipment with which the service person is familiar.

56. Timer Contacts

Refer to *Figure 25*.

a. Disconnect wires from timer, except timer motor wires.

NOTE: Refer to wiring diagram when rewiring timer.

b. While supporting timer, remove screws holding timer to control cabinet.
c. Pull timer out through control panel opening as far as wires will permit.
d. Manually rotate timer out of "OFF" position and into cycle.
e. Set test meter to read Ohms. The following readings should be found:
   (1) Motor circuit test – L1 and M = "zero" Ohms (closed)
   (2) Heat circuit test – L2 and H = "zero" Ohms (closed)
   (3) Timer motor test – T and M (1702 and1709 suffix models) or T and N (all other models) = approximately 2460-3100 Ohms or apply live power to timer motor terminals and motor should run.

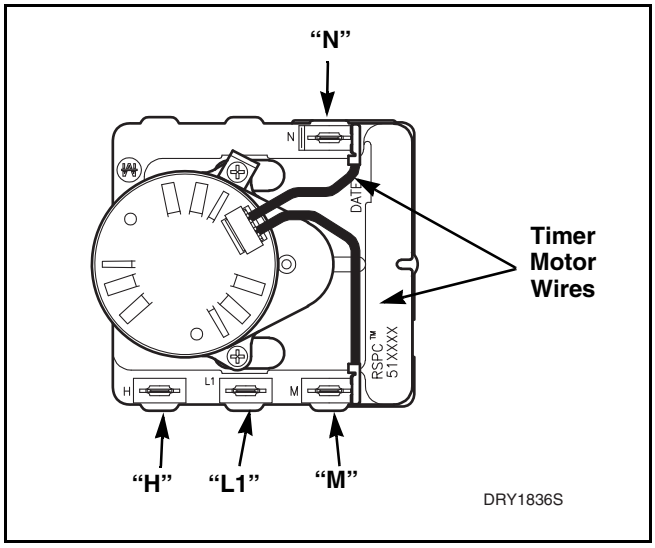

Figure 25

NOTE: Timer Motor Resistance:
120 Volt, 60 Hz2,460 – 3,100 Ohms
240 Volt10,900 – 13,000 Ohms
24 Volt80 – 130 Ohms

   (4) Rotate timer to "cooldown" (5 minutes before "OFF"). "Infinite" (open) reading should be found between L2 and H.
   (5) Rotate timer to "OFF" position. "Infinite" (open) reading should be found between L1 and M and between L2 and H.

NOTE: Timer motor power is supplied through M (1702 and1709 models) or N (all other models) terminal.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

57. Fabric Selector Switch

NOTE: Refer to proper model wiring diagram when rewiring switch.

a. Set test meter to read Ohms and apply meter probes to switch terminals.

NOTE: Refer to proper model wiring diagram when reconnecting wires.

FABRIC SELECTOR SWITCH – 4 Position		
	L1-1	L1-2
Fluff (No Heat)	–	–
Delicate	X	X
Perm. Press	–	X
Normal (Regular)	–	X
X indicates closed		

FABRIC SELECTOR SWITCH – 3 Position			
	L1-2	L1-3	L1-1
Fluff (No Heat)	–	X	–
Delicate	X	–	X
Regular/Perm. Press	X	–	–
X indicates closed			

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

58. Drive Motor

Refer to *Figure 26*.

a. Remove motor and exhaust assembly.

b. Disconnect motor wire harness at motor disconnect block.

NOTE: Refer to wiring schematic, Section 11, for internal motor switch wires.

NOTE: Drive Motor Resistance
120 Volt2,460 – 3,100 Ohms
240 Volt10,000 - 13,000 Ohms
24 Volt80-130 Ohms

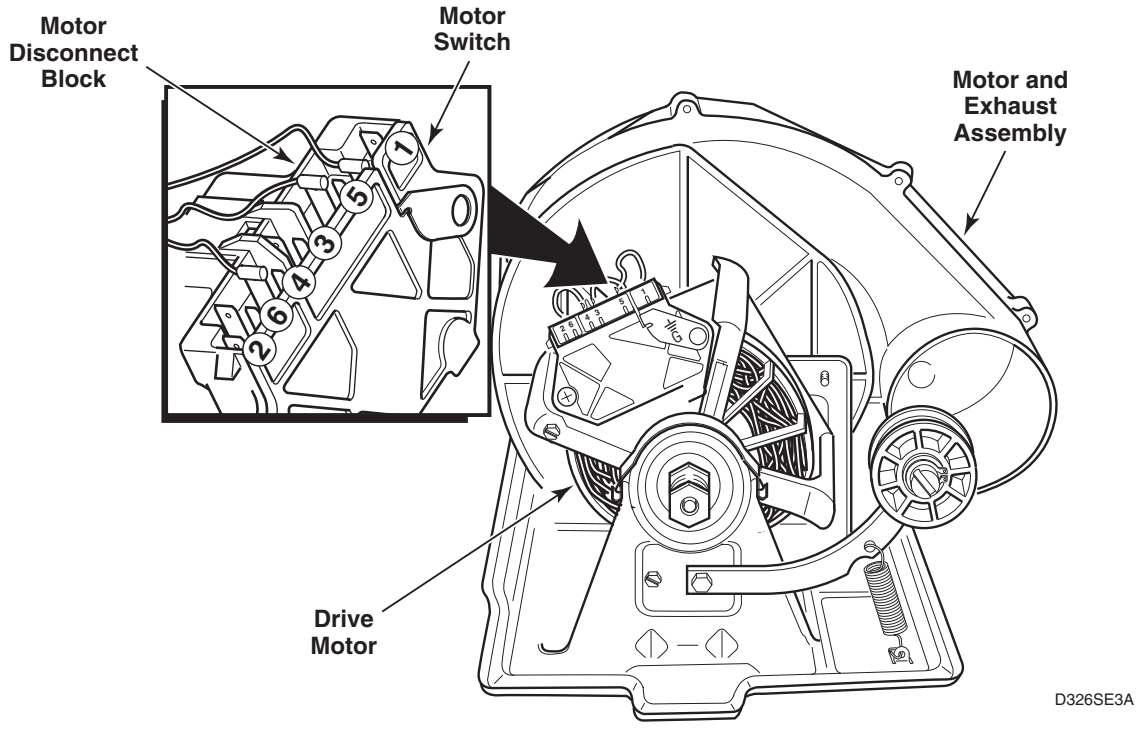

Figure 26

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

c. **Motor Switch** (Refer to SECTION 11 for Internal Wiring of the Dryer Motor Switch.)

WARNING

Disconnect electric power to dryer before performing any of the following steps or when replacing inoperative motor switch.

W260

Unplug the motor wire harness from the motor connection block before starting this test.

Start Terminals

Note: Disconnect yellow wire from motor switch before testing start terminals.

A. Continuity exists between switch terminal 5 and black wire. **NO** → Inoperative motor switch. Replace switch.

YES

B. Manually depress actuator. Continuity broken between switch terminal 5 and black wire. **NO** → Inoperative motor switch. Replace switch.

YES

Run Terminals

Note: Reconnect yellow wire to motor switch before testing run terminals.

C. Continuity broken between switch terminal 6 and yellow wire. **NO** → Inoperative motor switch. Replace switch.

YES

D. Manually depress actuator. Continuity exists between switch terminal 6 and yellow wire. **NO** → Inoperative motor switch. Replace switch.

YES

Heater Circuit Terminals

E. Continuity broken between switch terminal 1 and switch terminal 2. **NO** → Inoperative motor switch. Replace switch.

YES

F. Manually depress actuator. Continuity exists between switch terminal 1 and switch terminal 2. **NO** → Inoperative motor switch. Replace switch.

YES

Motor switch checks O.K.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

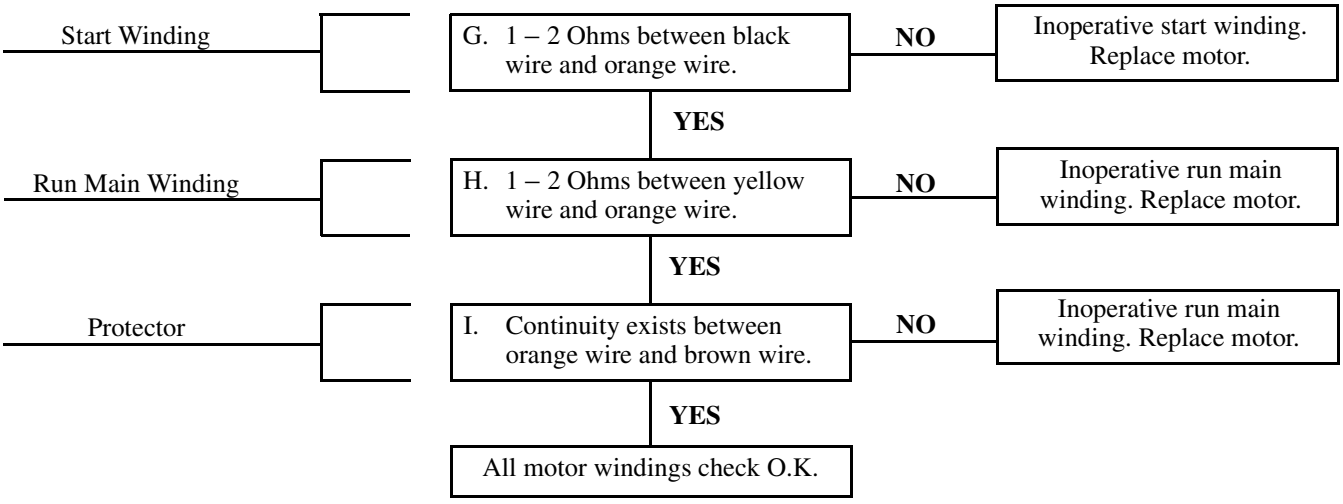
W001R1

d. **Motor Windings** (Refer to SECTION 11 for Internal Wiring of the Dryer Motor Switch.)

WARNING

Disconnect electric power to dryer before performing any of the following steps or when replacing inoperative motor switch.

W260


Start Winding
G. 1 – 2 Ohms between black wire and orange wire.
NO
Inoperative start winding. Replace motor.
YES
Run Main Winding
H. 1 – 2 Ohms between yellow wire and orange wire.
NO
Inoperative run main winding. Replace motor.
YES
Protector
I. Continuity exists between orange wire and brown wire.
NO
Inoperative run main winding. Replace motor.
YES
All motor windings check O.K.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

59. Accumulator (Metered Models)

NOTE: Refer to wiring diagram when rewiring switches.

a. Set meter to read Ohms and apply leads on terminals of each switch. You should read the following:
Switch A – "zero" Ohms (closed)
Switch B – "zero" Ohms (closed)
Switch C (if present) – "infinite" (open)

b. Manually advance timing cam until it engages with ratchet wheel and the first "click" is heard. Switch B should now read "infinite" (open).

c. Continue to rotate timing cam until second "click" is heard. Switch B should remain open. Switch A should read "infinite" (open) and Switch C (if present) should read "zero" Ohms (closed).

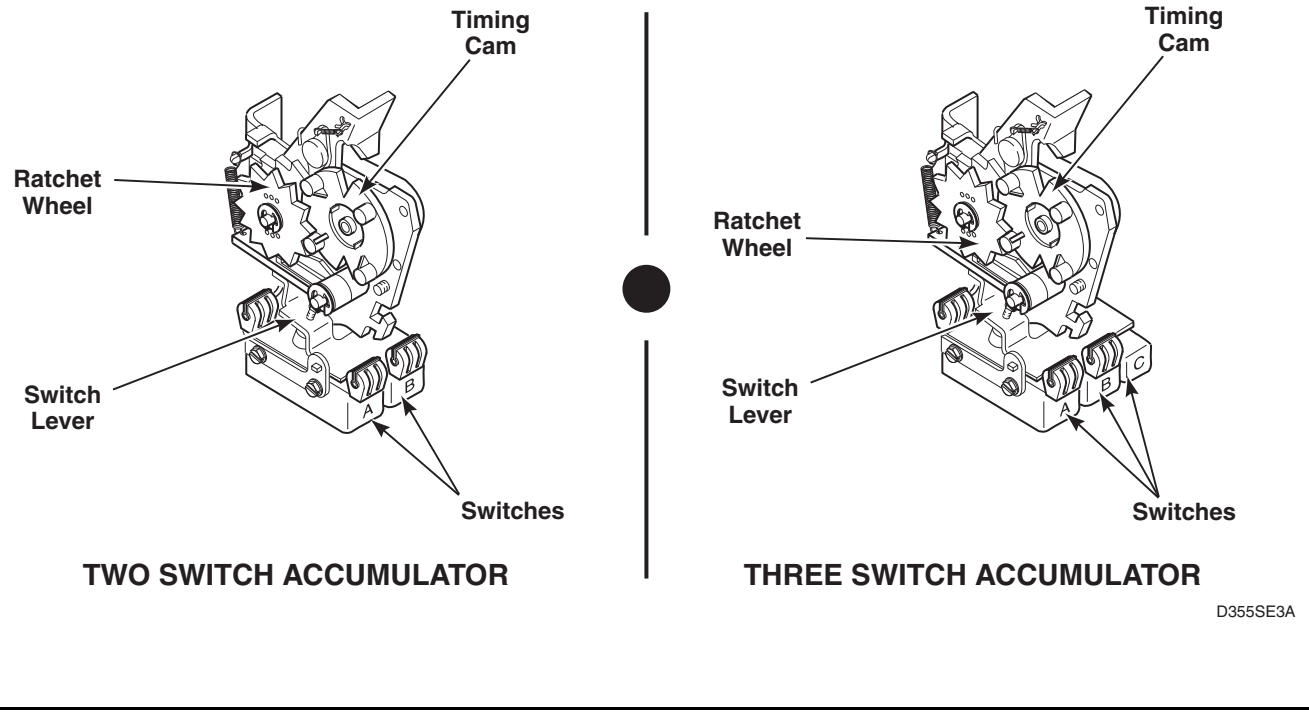

Figure 27

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

60. Motor Switch

a. Remove motor and exhaust fan assembly.
b. Remove the two motor switch attaching screws. Refer to *Figure 32*. Disconnect switch leads. Remove motor switch.
c. Remove thermal overload protector.

NOTE: The thermal overload protector is unique to the motor from which it was removed and should only be used on that motor. To reduce the risk of overheating the motor, do not use any thermal overload protector other than the one taken from the inoperative motor switch in step 3.

(1) **Motor with Switch on Blower End**
Using a small bladed screwdriver, press the thermal overload protector mounting tab downward and remove the thermal overload protector from the inoperative motor switch. Refer to *Figure 28*.

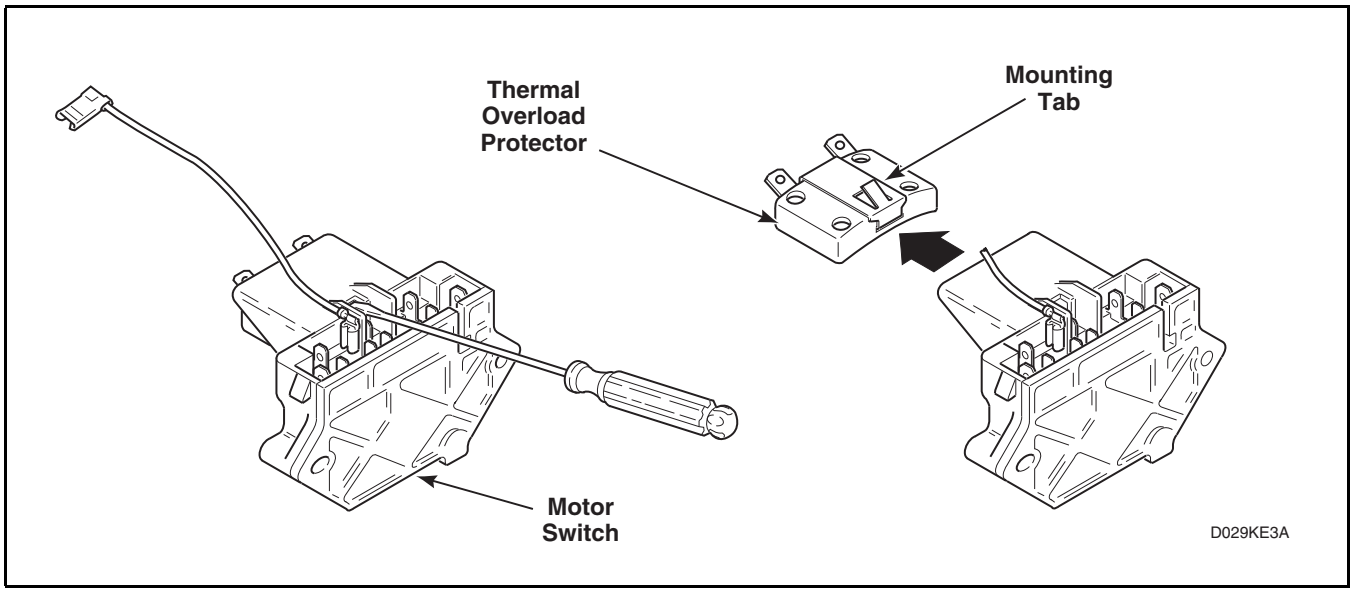

Figure 28

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

(2) **Motor with switch on pulley end**
Press the tip of a small bladed screwdriver into the slot located between top of motor switch and plastic clip. Lift up on handle of screwdriver until both clip and thermal overload protector detach from motor switch. Refer to *Figure 29*.

d. Attach the thermal overload protector removed in Step "c" to the new motor switch.
e. Install new motor switch onto motor and reconnect motor switch leads removed in Step "b". Refer to *Figure 32*.
f. Test motor switch by following the step-by-step procedures included in *Paragraph 58*.
g. Before reinstalling the motor assembly, apply power (120 VAC) directly to motor terminals 4 and 5. Then start and run the motor at least 6 times, making sure the motor and switch are operating properly.

NOTE: The dryer manufacturer and parts suppliers are not liable for improper switch installation.

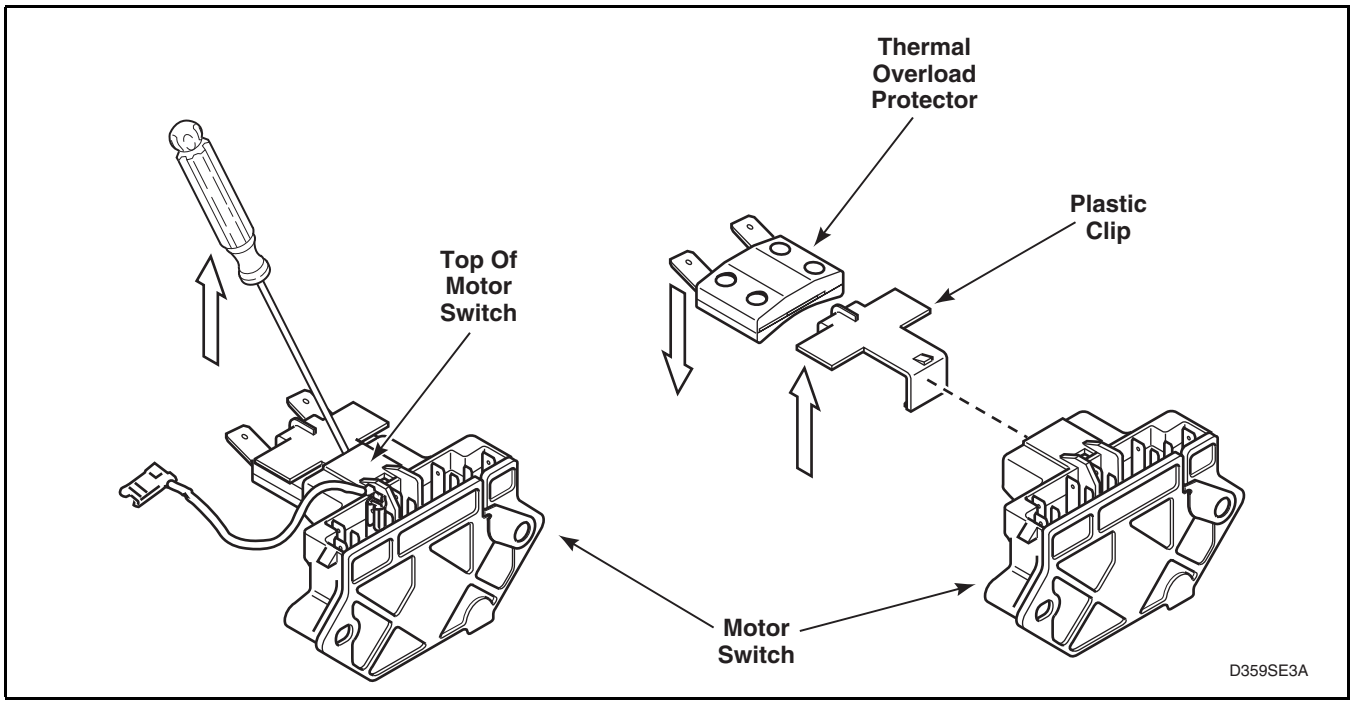

Figure 29

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

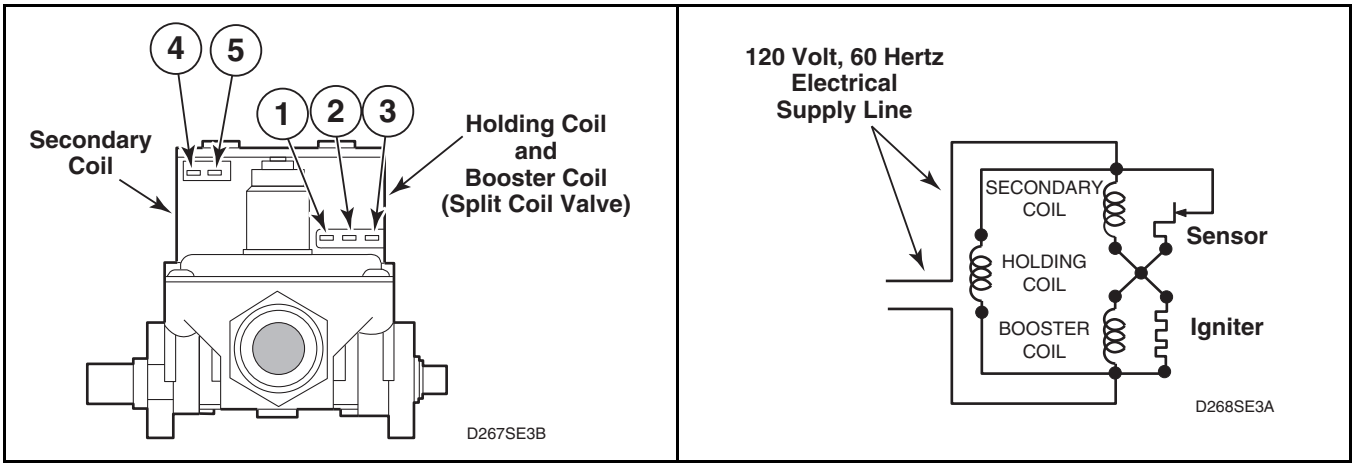

Figure 30

61. Burner System Operation (Gas Models)

Refer to *Figure 30.*

a. **Components**

This burner has four basic components: a silicon carbide (glow bar) igniter, burner tube, sensor, and a two-stage gas valve consisting of a split-coil valve and a secondary coil valve. The split-coil valve is opened when the dryer thermostat calls for heat, while the secondary valve does not open until the igniter has attained ignition temperature.

b. **Pre-Ignition Circuits**

When the dryer thermostat calls for heat, circuits are completed through the holding coil, sensor, booster coil and igniter. Both coils must be energized to open the split-coil valve. Once opened, the holding coil can hold the valve open without assistance from the booster coil. The sensor triggers the current to travel around the secondary coil and through the igniter, causing the igniter to get hot.

c. **Burner Circuit**

In approximately 30 seconds, the igniter attains ignition temperature and ignition is made. The heat from the burner flame causes the sensor contacts (located on burner housing beside the igniter) to open. A circuit is then completed through the secondary valve coil, opening the valve and allowing gas to flow.

d. **Momentary Power Interruption**

Upon resumption of power, sensor contacts will still be open, permitting secondary valve to open. However, with the secondary coil in the circuit, the booster coil cannot draw enough current to open the split-coil valve. When sensor contacts do reclose, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.

e. **Flame Failure**

In case of flame failure, the sensor contacts will re-close in about 45 seconds. This will close the secondary valve and the burner system will be in the normal pre-ignition circuit.

f. **Ignition Failure**

If flame is not established as sensor contacts open, secondary valve will remain open until sensor contacts re-close. Sensor will continue to recycle the igniter and secondary valve (about once per minute) until ignition is made or dryer is turned off.

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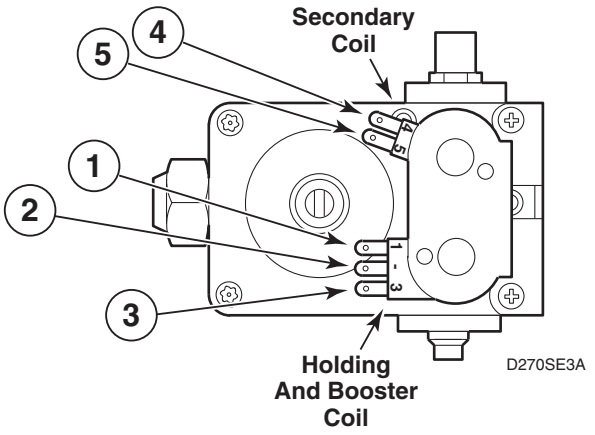
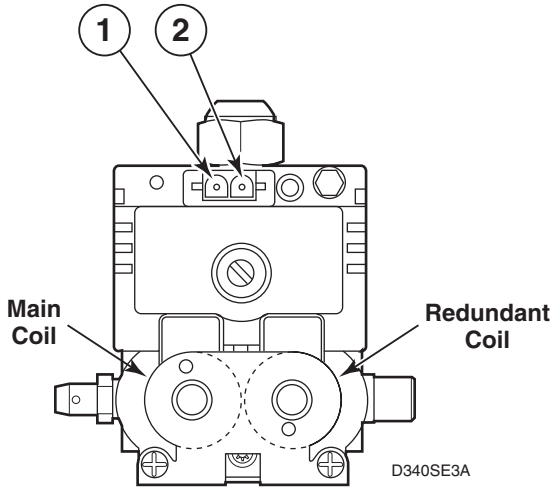
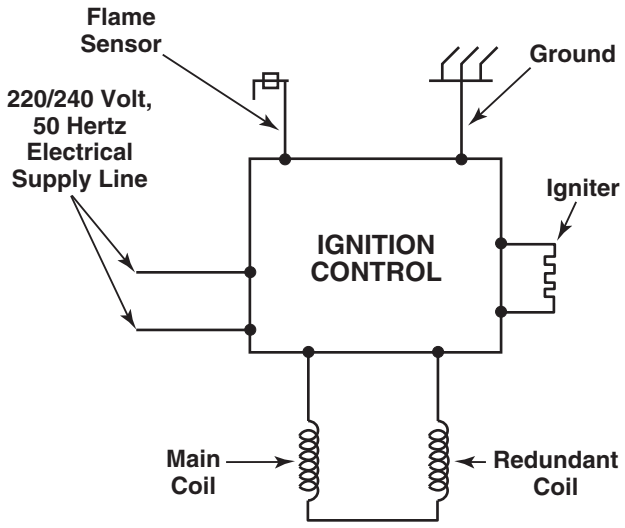


GAS VALVE FOR SILICON CARBIDE IGNITION



GAS VALVE FOR SILICON NITRATE IGNITION



WIRING SCHEMATIC

D332SE3A

Figure 31

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

62. Electrical Circuit To Ignition System (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Close main gas shut-off valve. Refer to *Figure 11*.
d. Remove valve wire harness disconnect block from the holding and booster coil. Refer to *Figure 31*.
e. Plug dryer power cord into wall receptacle, and start the dryer in a heat setting (refer to the Operating Instructions supplied with dryer).
f. Set test meter to read AC voltage and apply meter probes into terminals on the dryer harness plug that would correspond to terminals "1" and "2" on the coil. *Figure 30*. Meter should register line voltage in all temperature settings, except FLUFF (NO HEAT) which should read “zero” VAC.
g. If meter does not read line voltage in step “f”, check motor switch, thermostats, fabric switch, accumulator, or timer.

WARNING

To reduce the risk of fire, explosion and electric shock, close the valve in the gas supply line to the gas dryer and disconnect the electrical power unless gas or power supplies are required to perform test procedure.

W263

63. Gas Valve Coils Check (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Close main gas shut-off valve. Refer to *Figure 11*.
d. Remove disconnect blocks from gas valve coils.
e. Set test meter to read Ohms and put meter probes to terminals shown in *Figure 31*, and in the following chart.

Silicon Carbide Ignition:

COIL TOLERANCE READINGS

Meter probes to terminals:	Meter should read:	
	50 Hertz	60 Hertz
Holding Coil – Terminals 1 & 2	1700 ± 285 Ohms	1365 ± 230 Ohms
Booster Coil – Terminals 1 & 3	685 ± 115 Ohms	560 ± 100 Ohms
Secondary Coil – Terminals 4 & 5	1680 ± 285 Ohms	1325 ± 230 Ohms

Silicon Nitride Ignition:
Both coils should read between 2400-2800 Ohms.

NOTE: If meter registers any other readings than those listed above, the respective coil(s) should be replaced.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

64. Sensor Check (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Close main gas shut-off valve. Refer to *Figure 11*.
d. Remove wires from sensor terminals.
e. Set test meter to read Ohms and put meter probes on sensor terminals. Meter should read "zero" Ohms. If meter registers an Ohm reading of any amount, replace sensor.

65. Igniter Check (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Close main gas shut-off valve. Refer to *Figure 11*.
d. Disconnect igniter wires at disconnect block.
e. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
f. **Silicon Carbide Igniter**: Meter should read between 45 – 200 Ohms.
Silicon Nitride Igniter: Meter should read between 49 – 88 Ohms.

NOTE: If meter does not read appropriate Ohms, then replace the igniter.

IMPORTANT: Always examine all wires, terminals and connectors to be sure wiring is correct before replacing any components.

66. Ignition Control Grounding Check (Silicon Nitride Ignition)

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Close main gas shut-off valve. Refer to *Figure 11*.
d. Remove wires from sensor terminals.
e. Set test meter to read Ohms and put meter probes on the ground wire connection in 12-pin block (connected to module) and on the green ground screw in base of dryer.
f. Meter should read "zero" Ohms. If meter registers an Ohm reading of any amount, check ground wire connection and replace as necessary.

67. Thermal Fuse (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of front access panel.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
c. Label and disconnect wires from thermal fuse.

NOTE: Refer to wiring diagram when rewiring thermal fuse.

d. Set multimeter to read Ohms. Apply meter probes to thermal fuse terminals. Multimeter should read 0 Ohms. If the meter does not show any reading (infinite Ohms), then the fuse is open. If the fuse is open, then replace BOTH the thermal fuse and the limit thermostat.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

68. Heater Assembly (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
c. Disconnect wires from heater assembly.

NOTE: Refer to wiring diagram when rewiring heater assembly.

d. Set meter to read Ohms. Apply meter probes to the heater assembly terminals. Meter should read as follows: (Cold Ohms).

Heater Element Color Code	KW	Voltage/Hz.	Resistance Reading
Red	5	240 V 60 Hz.	10.39 ± .31 Ohms Cold
White	4.75	208 V 60 Hz.	8.2 ± .5 Ohms Cold
Green	4.8	240 V 50 Hz.	10.75 ± .32 Ohms Cold
Yellow	4	240 V 50 Hz.	13.03 ± .39 Ohms Cold
Blue	3.1	240 V 50 Hz.	16.7 ± .5 Ohms Cold
Orange	5.35	240 V 60 Hz.	9.72 ± .3 Ohms Cold
Purple	4.25	208 V 60 Hz.	9.27 ± .3 Ohms Cold

69. Cycling or Limit Thermostat

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
c. Label and disconnect wires from thermostat.

NOTE: Refer to wiring diagram when rewiring thermostat.

d. **Cycling Thermostat (S.P.S.T. – 2 Terminals) or Limit Thermostat**
   (1) Set meter to read Ohms.
   (2) Apply meter probes to the thermostat terminals.
   (3) Meter should read “zero.”
e. **Cycling Thermostat (S.P.D.T. – 3 Terminals)**
   (1) Set meter to read Ohms.
   (2) Apply meter probes to terminals 1 and 3. Meter should read “zero”.
   (3) Remove screws holding thermostat to blower fan cover.
   (4) Heat thermostat with a small flame until a distinct “click” is heard, then immediately apply meter probes to terminals 1 and 2. Meter should read “zero”.

70. Door Switch

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch.

NOTE: Refer to model wiring diagram when rewiring door switch.

e. Set meter to read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get “zero” reading.
f. Apply probes to terminals 1 and 2 with door closed. The meter should read “infinite”.
g. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

71. Thermistor

a. While supporting the access panel, remove two screws from bottom edge of access panel.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
c. Label and disconnect wires from thermistor.

NOTE: Refer to wiring diagram when rewiring thermistor.

d. Set meter to read Ohms.
e. Apply meter probes to the thermistor terminals.
f. Meter should read that resitance is present (thermistor is not open).

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Section 11
Internal Wiring of Dryer Motor Switch

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

W001R1

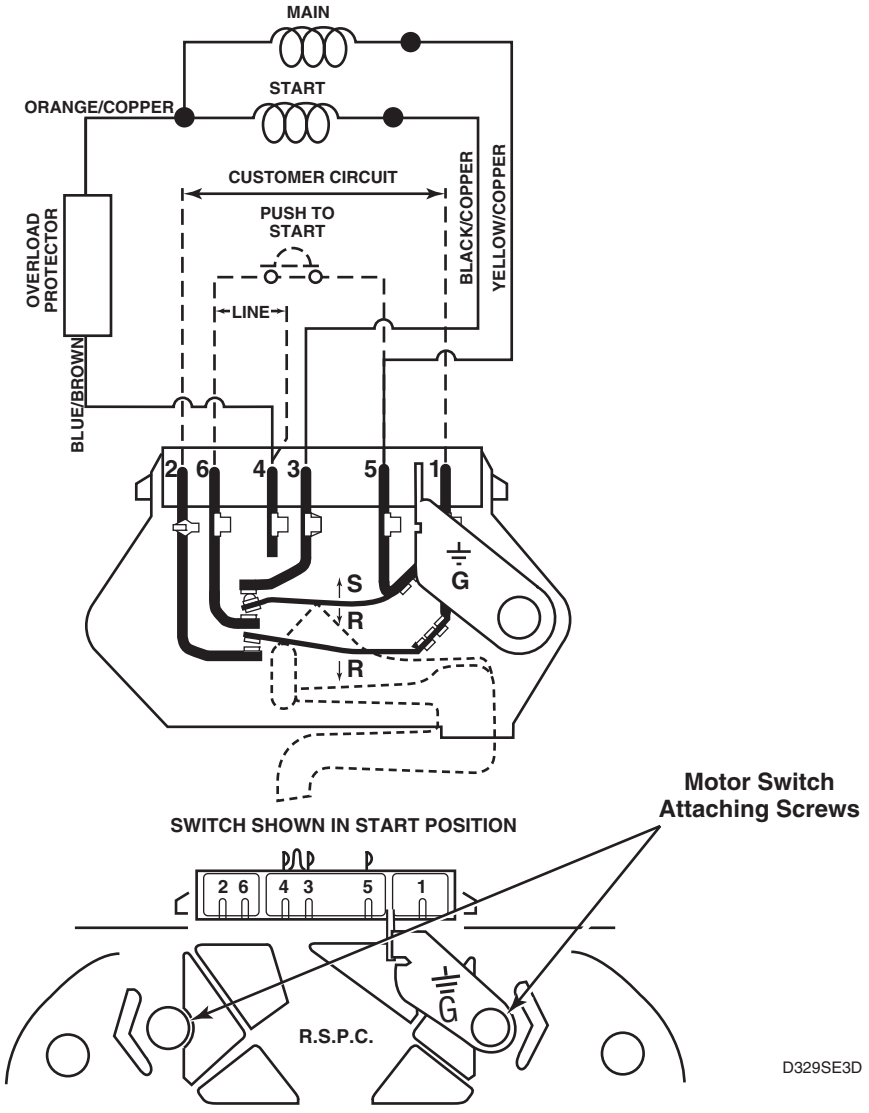

Figure 32

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